Confirmation	No
Commination	146

PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE FEB 2 5 2005 work Reduction Act of 1995, no persons are required to respond ection of information unless it displays a valid OMB control number. Application Number TRANSMITTAL Filing Date FORM First Named Inventor Lakhbir Singh Art Unit Examiner Name (to be used for all correspondence after initial filing) Attorney Docket Number 5454 (PC17105) Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC 7 Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): asmittal of Application for Extension of Patent Term Under 35 U.S.C. § 156 ilication for Extension of Potent Term Under 35 U.S.C. § 156 w/Exhibitis Request for Refund Express Abandonment Request CD. Number of CD(s) Information Disclosure Statement Certificate of Express Mail Return Postcard Landscape Table on CD Certified Copy of Priority Document(s) Authorization to charge the fee and any additional fees as necessary or credit any Reply to Missing Parts/ overpayment to Deposit Account 23-0455 is hereby given. Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Warner Lambert Company LLC Signature Printed name Karen DeBenedictis Date Reg No. 32,977 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO) or process) an application Confidentality is governed by \$5 US. C. 122 and \$7 CFR. 1.1 and 1.4. This collection is estimated to 2 hours be proposed in additional confidentality is governed by \$5 US. C. 122 and \$7 CFR. 1.1 and 1.4. This collection is estimated to 2 hours be proposed in additional control of the USFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for rectioning files blurder, should be sent to the Chief Information Giffice. US. Department of Commerce, P.O. Box 1450, Alexandria, V. 2231-3450. DO NOT SERD FEES OR COMPLETED FORMS TO THIS ADDRESS. SERVI DTC Commissionor for Patents, P.O., Box 1450, Alexandria, V. 2231-31450.

Date

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USPTO Fax No. 703-872-9306

Typed or printed name

Linda A. Zerby

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Custome

Confirmation No.

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U.S. Patent and Taperved for use through 07/31/2006. OMB 0951-0932

U.S. Patent and Taperved for use through 07/31/2006. OMB 0951-0932

work Reduction Act of 1995, no persons are required to respond to a collection of information unless it diseases a visible Microtrial number.

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Effective 10/01/2004. Patent fees are subject to annual revision	. [First	Named	Inven	tor Lakhbir Singh MAR 0 3 20	JU5
	-	Exam	iner N	ame	OFFICE OF PET	ITIONG
Applicant claims small entity status. See 37 CFR 1.27	—[Art U	nit		01121	1110183
TOTAL AMOUNT OF PAYMENT (\$) 1,120.00	[Attor	ney Do	cket N	o. 5454 (PC17105)	
METHOD OF PAYMENT (check all that apply)				FEE	CALCULATION (continued)	
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Deposit Account 23-0455	Fee Code	Fee (\$)		Fee (\$)	Fee Description	Fee Paid
Number	1051	130	2051		Surcharge - late filing fee or oath	
Deposit Warner-Lambert Company LLC	1052	50	2052		Surcharge - late provisional filing fee or cover sheet	
Name The Director is authorized to: (check all that apply)	1053	130	1053		Non-English specification	
Charge fee(s) indicated below Credit any overpayments		2,520	1812	-,	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804		Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	1
1. BASIC FILING FEE	1252	430	2252	215	Extension for reply within second month	
Large Entity Small Entity	1253	980	2253		Extension for reply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)		1,530	2254		Extension for reply within fourth month	
1001 790 2001 395 Utility filing fee		2,080	2255	1,040	Extension for reply within fifth month	
1002 350 2002 175 Design filing fee	1401	340	2401		Notice of Appeal	
1003 550 2003 275 Plant filing fee	1402	340	2402		Filing a brief in support of an appeal	-
1004 790 2004 395 Reissue filing fee	1403	300	2403		Request for oral hearing	
1005 160 2005 80 Provisional filing fee		1,510	1451		Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452		Petition to revive - unavoidable	-
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2453		Petition to revive - unintentional	
Fee from Extra Claims below Fee Paid	1501	1,370 490	2501 2502		Utility issue fee (or reissue) Design issue fee	-
Total Claims -20** = X 18.00 = \$0.00	1502	660	2502		Plant issue fee	
Independent - 3** = x 88.00 = \$0.00	1460	130	1460		Petitions to the Commissioner	
Multiple Dependent	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806		Submission of Information Disclosure Stmt	
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1202 18 2202 9 Claims in excess of 20					property (times number of properties)	
1201 88 2201 44 Independent claims in excess of 3	1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 300 2203 150 Multiple dependent claim, if not paid	1810	790	2810	395	For each additional invention to be	
1204 88 2204 44 ** Reissue independent claims over original patent	1801	790	2801	395	examined (37 CFR 1.129(b)) Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 end over original patent	1802	900	1802	900	Request for expedited examination of a design epplication	
SUBTOTAL (2) (\$) 0.00					R 1.20(j)(1) Patent Term Ext.	1,120.00
**or number previously paid, if greater, For Reissues, see above	*Red	uced by	Basic F	iling Fe	e Paid SUBTOTAL (3) (\$)1,120	.00
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This collection of Information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to fine fend by the USPTO to process) an application. Confidentiality is overmed by 38 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to extend its eliminate is complete, including gathering, preparing, and submitting the completed application from to the USPTO. Time will vary depending upon the information and or complete this form and/or suggestions for reducting this burden, should be sent to the Chief Information Officer, U.S. Peatent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

CERTIFICATE OF MA	ILING BY "EXPRESS MA	IL" (37 CFR 1.10)	Docket No. 5454 (PC17105)
Serial 83. FEB 2 5 2005	Filing Date	Examiner	Group Art
Nention:	DERIVATIVES FOR THE TREA	TMENT OF PAIN MAR (1) 9 OFFICE OF	5003
hereby certify that this being deposited with the U	Application for Extension of Paten	(Identify type of correspondence)	ssee" service under
on Zeb. 25, 20	addressed to: Commissioner fo	r Patents, P.O. Box 1450, Ale	exandria, VA 22313-1450
			A. Zerby Person Mailing Correspondence)
		(Signature of Person	Mailing Correspondence)
			394156US Mailing Label Number)
	Note: Each paper must have	its own certificate of mailing	

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

U. S. PATENT NO. 6.001.876

RECFIVED

WARNER-LAMBERT COMPANY LLC

MAR A 3 2005

ISSUED:

DECEMBER 14, 1999

TO:

LAKHBIR SINGH

OFFICE OF PETITIONS

FOR:

ISOBUTYLGABA AND ITS DERIVATIVES FOR THE TREATMENT

OF PAIN

Transmittal of Application for Extension of Patent Term Under 35 U.S.C. § 156

Mail Stop Patent Ext. Commissioner for Patents P.O. BOX 1450

Alexandria, VA 22313-1450

03/02/2005 HGUTEMA1 00000028 230455 6001876

01 FC:1457 1120.00 DA

Dear Sir

Transmitted herewith is the application of Warner-Lambert Company LLC for extension of the term of United States Patent No. 6.001.876 under 35 U.S.C. §156. together with four identical copies thereof. United States Patent 6,001,876 contains claims to the treatment of pain by administering pregabalin, the active ingredient in LYRICATM. LYRICATM received permission for commercial marketing or use under subsection 505(b) of the Federal Food, Drug and Cosmetic Act (21 U.S.C. § 355(b)) on December 30, 2004. Two NDA's relating to LYRICATM were approved on December 30, 2004 - NDA No. 21-446, which relates to the treatment of neuropathic pain associated with diabetic peripheral neuropathy with LYRICA™, and NDA No. 21-723, which relates to the treatment of neuropathic pain associated with herpes zoster (post herpetic neuralgia) with LYRICATM.

This application for patent term extension of United States Patent 6,001,876 is based on the regulatory review period that ended with the approval of NDA No. 21-723 on December 30, 2004. Applicant, Warner-Lambert Company LLC, is also submitting to the United States Patent and Trademark Office ("the Office"). concurrently with this application, an application for extension of the term of U.S. Patent 6,197,819 B1, which contains product claims to pregabalin, based on the regulatory review period ending with the approval of NDA No. 21-446 on December 30, 2004.

Applicant asserts that it has the right, under 35 U.S.C. §156, to extend both of the foregoing patents relating to LYRICATM (pregabalin) because both NDA's relating to LYRICATM were approved on December 30, 2004 and there were no approvals of LYRICATM prior to December 30, 2004. Applicant respectfully requests that if the Commissioner does not share Applicant's view regarding its right to extend both patents, the Office contact Applicant's undersigned attorney.

Please charge Deposit Account 23-0455 the amount of \$1,120.00. The Commissioner is hereby authorized to charge any additional fees that may be required to ensure prosecution of this application, and to credit any overpayment, to Deposit Account 23-0455.

Respectfully submitted,

Dated: 2/24/05

Karen DeBenedictis

Registration No. 32,977

Warner-Lambert Company LLC 2800 Plymouth Road Ann Arbor, MI 48105

Telephone: (734) 622-3374 Facsimile: (734) 622-1553

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE: U. S. PATENT NO. 6,001,876

ASSIGNEE: WARNER-LAMBERT COMPANY LLC

ISSUED: DECEMBER 14, 1999

TO: LAKHBIR SINGH

FOR: ISOBUTYLGABA AND ITS DERIVATIVES FOR THE TREATMENT

OF PAIN

mittal of Application for Extension of Patent Term Under 35 U.S.C. § 156

Mail top Patent Ext.

Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is the application of Warner-Lambert Company LLC for extension of the term of United States Patent No. 6,001,876 under 35 U.S.C. §156, together with four identical copies thereof. United States Patent 6,001,876 contains claims to the treatment of pain by administering pregabalin, the active ingredient in LYRICA[™]. LYRICA[™] received permission for commercial marketing or use under subsection 505(b) of the Federal Food, Drug and Cosmetic Act (21 U.S.C. § 355(b)) on December 30, 2004. Two NDA's relating to LYRICA[™] were approved on December 30, 2004 - NDA No. 21-446, which relates to the treatment of neuropathic pain associated with diabetic peripheral neuropathy with LYRICA[™], and NDA No. 21-723, which relates to the treatment of neuropathic pain associated with herpes zoster (post herpetic neuralgia) with LYRICA[™].

This application for patent term extension of United States Patent 6,001,876 is based on the regulatory review period that ended with the approval of NDA No. 21-723 on December 30, 2004. Applicant, Warner-Lambert Company LLC, is also submitting to the United States Patent and Trademark Office ("the Office"), concurrently with this application, an application for extension of the term of U.S. Patent 6.197.819 B1, which contains product claims to pregabalin, based on the

regulatory review period ending with the approval of NDA No. 21-446 on December 30, 2004.

Applicant asserts that it has the right, under 35 U.S.C. §156, to extend both of the foregoing patents relating to LYRICA™ (pregabalin) because both NDA's relating to LYRICA™ were approved on December 30, 2004 and there were no approvals of LYRICA™ prior to December 30, 2004. Applicant respectfully requests that if the Commissioner does not share Applicant's view regarding its right to extend both patents, the Office contact Applicant's undersigned attorney.

Please charge Deposit Account 23-0455 the amount of \$1,120.00. The Commissioner is hereby authorized to charge any additional fees that may be required to ensure prosecution of this application, and to credit any overpayment, to Deposit Account 23-0455.

Respectfully submitted,

Dated: 2/24/05

Karen DeBenedictis

Registration No. 32,977 Warner-Lambert Company LLC

2800 Plymouth Road Ann Arbor, MI 48105 Telephone: (734) 622-3374

Facsimile: (734) 622-3374



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

ENSERVE.

U. S. PATENT NO. 6,001,876

ASSIGNEE:

WARNER-LAMBERT COMPANY LLC

ISSUED:

DECEMBER 14, 1999

TO:

LAKHBIR SINGH

FOR:

ISOBUTYLGABA AND ITS DERIVATIVES FOR THE TREATMENT

OF PAIN

FEB 2 5 2005

Application for Extension of the Term of United States Patent No. 6,001,876

Under 35 U.S.C. § 156

Mail Stop Patent Ext.
Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant, Warner-Lambert Company LLC, a corporation of the State of New Jersey having a place of business at 201 Tabor Road, Morris Plains, New Jersey 07950, represents that it is the sole owner of rights in Letters Patent of the United States No. 6,001,876, which was granted to Lakhbir Singh on the 14th day of December, 1999 for Isobutylgaba and its Derivatives for the Treatment of Pain. Such patent is owned by Warner-Lambert Company LLC by virtue of the assignment recorded in the United States Patent and Trademark Office on September 14, 1998 at Reel 9455, Frame 0265, and the assignment recorded in the United States Patent and Trademark Office on September 14, 1998 at Reel 9455, Frame 0279.

Pursuant to the provisions of 35 U.S.C. § 156, and based on the materials set forth herein and in the accompanying papers, Applicant hereby applies for an extension of the term of United States Patent No. 6,001,876, which is currently set to expire on July 16, 2017, of 533 days. If this extension is granted, such patent would not expire until December 30, 2018. In the materials that follow, numbered

paragraphs "1" through "15" correspond to paragraph numbers "1" through "15" of 37 C.F.R. § 1.740(a).

(1) The approved product is the active ingredient, including any salt of the active ingredient, in LYRICA, i.e., pregabalin, which is the generic name of the active ingredient in LYRICATM (LYRICA is a trademark of Parke Davis & Company LLC LTD LIAB CO Michigan), and any pharmaceutically acceptable salts of pregabalin. Pregabalin, the active ingredient in LYRICATM, is identified further as follows:

Chemical Name

S-(+)-4-amino-3-(2-methylpropyl)butanoic acid1

Generic Name

Pregabalin

Molecular Formula

 $C_8H_{18}O_2N$

Structural Formula

$$_{\mathrm{H_{3}C}}$$
 $_{\mathrm{O}}$ $_{\mathrm{NH_{2}}}$ $_{\mathrm{O}}$

Physical Form

LYRICA[™] (pregabalin) capsules contain 25, 50, 75, 100, 150, 200, 225, or 300 mg of pregabalin. Pregabalin is a white to off-white crystalline

 $^{^{1} \ \ \}text{Pregabalin is also known by the chemical name (S)-(+)-3-aminomethyl-5-methylhexanoic acid.}$

solid with a pk_{a1} of 4.2 and a pk_{a2} of 10.6. It is freely soluble in water and in both basic and acidic aqueous solutions. The log of the partition coefficient (n-octanol/0.05M phosphate buffer) at pH 7.4 is -1.35.

- (2) LYRICA[™] (pregabalin) was subject to regulatory review under subsection 505(b) of the Federal Food, Drug and Cosmetic Act (21 U.S.C. § 355(b)).
- (3) LYRICA[™] (pregabalin) received permission for commercial marketing or use under subsection 505(b) of the Federal Food, Drug and Cosmetic Act (21 U.S.C. § 355(b)) on December 30, 2004. The FDA's letter dated December 30, 2004, reporting the approval of NDA No. 21-446, which relates to the treatment of neuropathic pain associated with diabetic peripheral neuropathy with LYRICA[™], is appended hereto as Exhibit A. The FDA's letter dated December 30, 2004, reporting the approval of NDA No. 21-723, which relates to the treatment of neuropathic pain associated with herpes zoster (postherptic neuralgia) with LYRICA[™], is appended hereto as Exhibit B. This application for patent term extension is based on the regulatory review period that ended with the approval of NDA No. 21-723 on December 30, 2004. An application for patent term extension of U.S. Patent 6,197, 819 B1, which contains product claims to pregabalin and its pharmaceutically acceptable salts, is being submitted concurrently with this application and is based on the regulatory review period ending with the approval of NDA No. 21-446 on December 30, 2004.
- (4) The active ingredient in LYRICATM is S-(+)-4-amino-3-(2-methylpropyl)butanoic acid (pregabalin). Neither pregabalin nor any salt of pregabalin has been previously approved for commercial marketing or use under the Federal Food, Drug and Cosmetic Act, the Public Health Service Act or the Virus-Serum-Toxin Act.

(5) This application is being submitted within the sixty day period permitted for its submission pursuant to 37 C.F.R. § 1.720(f). The last day on which this application could be submitted is February 28, 2005.

(6) The patent for which an extension is being sought is identified as follows:

Inventor: LAKHBIR SINGH

Patent No.: 6,001,876

Title: ISOBUTYLGABA AND ITS DERIVATIVES FOR THE

TREATMENT OF PAIN

Issued: DECEMBER 14, 1999

Expires: JULY 16, 2017

(7) A copy of United States Patent No. 6,001,876, the patent for which an extension is sought, is appended as Exhibit C.

- (8) No disclaimer, certificate of correction, or reexamination certificate has issued for United States Patent No. 6,001,876. One receipt for a maintenance fee payment has issued for this patent, and a copy of such receipt is attached hereto as Exhibit D.
- (9) United States Patent No. 6,001,876 claims a method for treating pain by administering the approved product. Claim 1 claims a method for treating pain by administering a therapeutically effective amount of a compound included in a genus of compounds that includes pregabalin. which is S-(+)-(4)-amino-3-(2methylpropyl)butanoic acid, or a pharmaceutically acceptable salt, diastereomer or enantiomer thereof. Claim 2 claims a method according to claim 1, wherein the compound administered is pregabalin, the opposite enantiomer of pregabalin, which is R-(-)-(4)-amino-3-(2-methylpropyl)butanoic acid, or a racemic mixture of pregabalin and its opposite enantiomer. Claim 3 claims a method according to claim 1 wherein

the compound that is administered is pregabalin. Claims 4 through 15 claim methods according to claim 1 wherein the pain treated is, respectively, inflammatory pain, neuropathic pain, cancer pain, postoperative pain, phantom limit pain ("phantom limit pain" is a misspelling of "phantom limb pain", which appears correctly in the specification in column 1 at line 33), burn pain, gout pain, osteoarthritic pain, trigeminal neuralgia pain, acute herpetic and postherpetic pain, causalgia pain and idiopathic pain.

A listing of each applicable patent claim and the manner in which each such claim reads on a method of using the approved product for the use approved in NDA No. 21-723.

Claim 1 of U.S. Patent 6,001,876 reads "A method for treating pain comprising

administering a therapeutically effective amount of a compound of Formula I or a pharmaceutically acceptable salt thereof, wherein R_1 is a straight or branched alkyl of from 1 to 6 carbon atoms, phenyl, or cycloalkyl of from 3 to 6 carbon atoms; R_2 is hydrogen or methyl; and R_3 is hydrogen, methyl or carboxyl to a mammal in need of said treatment." Pregabalin is S-(+)-4-amino-3-(2-methylpropyl)butanoic acid, which is the (S) enantiomer of the compound of Formula I wherein R_2 and R_3 are hydrogen and R_1 is isobutyl. Claim 1 therefore embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 1 therefore reads on a method of using the approved product.

Claim 2 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the compound administered is a compound of the formula I wherein R_2 and R_3 are hydrogen and R_1 is $-(CH_2)_{0.2}$ -i- C_4H_9 as an (R), (S), or (R, S) isomer." Pregabalin is the (S) enantiomer of the compound of Formula I wherein R_2 and R_3 are hydrogen and R_1 is $-(CH_2)_0$ -i- C_4H_9 (isobutyl). Claim 2 therefore embraces a method of treating pain by

administering pregabalin to a mammal in need of such treatment. Claim 2 therefore reads on a method of using the approved product.

Claim 3 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the compound administered is named (S)-3-aminomethyl-5-methylhexanoic acid and 3-aminomethyl-5-methylhexanoic acid." Pregabalin is the (S) enantiomer of 3-aminomethyl-5-methylhexanoic acid. Claim 3 therefore embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 3 therefore reads on a method of using the approved.

Claim 4 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is inflammatory pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 4 therefore embraces a method of treating inflammatory pain by administering pregabalin to a mammal in need of such treatment. Claim 4 therefore reads on a method of using the approved product.

Claim 5 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is neuropathic pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 5 therefore embraces a method of treating neuropathic pain by administering pregabalin to a mammal in need of such treatment. Claim 5 therefore reads on a method of using the approved product.

Claim 6 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is cancer pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 6 therefore embraces a method of treating cancer pain by administering pregabalin to a mammal in need of such treatment. Claim 6 therefore reads on a method of using the approved product.

5454 PTE Application 35 USC 18 Pried from 08420905 on 03/22/2007

² See footnote 1.

Claim 7 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is poetoperative pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 7 therefore embraces a method of treating postoperative pain by administering pregabalin to a mammal in need of such treatment. Claim 7 therefore reads on a method of using the approved product.

Claim 8 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is phantom limit pain." (The phrase "phantom limit pain" is a misspelling of "phantom limb pain", which appears correctly in the specification in column 1 at line 33). As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 8 therefore embraces a method of treating phantom limb pain by administering pregabalin to a mammal in need of such treatment. Claim 8 therefore reads on a method of using the approved product.

Claim 9 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is burn pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 9 therefore embraces a method of treating burn pain by administering pregabalin to a mammal in need of such treatment. Claim 9 therefore reads on a method of using the approved product.

Claim 10 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is gout pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 10 therefore embraces a method of treating gout pain by administering pregabalin to a mammal in need of such treatment. Claim 10 therefore reads on a method of using the approved product.

<u>Claim 11</u> of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is osteoarthritic pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such

treatment. Claim 11 therefore embraces a method of treating osteoarthritic pain by administering pregabalin to a mammal in need of such treatment. Claim 11 therefore reads on a method of using the approved product.

Claim 12 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is trigeminal neuralgia pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 12 therefore embraces a method of treating trigeminal neuralgia pain by administering pregabalin to a mammal in need of such treatment. Claim 12 therefore reads on a method of using the approved product.

Claim 13 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is acute herpetic and postherpetic pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 13 therefore embraces a method of treating acute herpetic and postherpetic pain by administering pregabalin to a mammal in need of such treatment. Claim 13 therefore reads on a method of using the approved product.

Claim 14 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is causalgia pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 14 therefore embraces a method of treating causalgia pain by administering pregabalin to a mammal in need of such treatment. Claim 14 therefore reads on a method of using the approved product.

Claim 15 of U.S. Patent 6,001,876 reads "A method according to claim 1 wherein the pain treated is idiopathic pain." As indicated above, Claim 1 embraces a method of treating pain by administering pregabalin to a mammal in need of such treatment. Claim 15 therefore embraces a method of treating idiopathic pain by administering pregabalin to a mammal in need of such treatment. Claim 15 therefore reads on a method of using the approved product.

- (10) The relevant dates and information pursuant to 35 U.S.C. § 156(g) in order to permit the Secretary of Health and Human Services to determine the applicable regulatory review period are as follows:
 - An exemption under subsection (i) of section 505 of the Federal Food, Drug and Cosmetic Act became effective for LYRICATM (pregabalin) on August 24, 1997, i.e., thirty days following receipt by the FDA of Investigational New Drug ("IND") Application No. 53,763 on July 25, 1997
 - A new Drug Application ("NDA") under subsection (b) of section 505 of the Federal Food, Drug and Cosmetic Act for LYRICA™ (pregabalin) was initially submitted on October 30, 2003 as NDA No. 21-446. This NDA was submitted by Pfizer Inc ("Pfizer"), a company incorporated in Delaware and having its headquarters in New York, NY, and of which Applicant, Warner-Lambert Company LLC, is a wholly owned subsidiary. By a letter dated November 25, 2003, the FDA informed Pfizer that it had split NDA No. 21-446 into separate NDA's according to indication. These NDA's were: NDA No. 21-446, relating to the treatment of neuropathic pain associated with diabetic peripheral neuropathy with LYRICA™; and NDA No. 21-723, relating to the treatment of neuropathic pain associated with herpes zoster (postherpetic neuralgia) with LYRICA™
 - NDA No. 21-723 was approved on December 30, 2004. This application
 for extension of the term of U.S. Patent 6,001,876 is based on the
 regulatory review period that ended with the approval of NDA No. 21-723
 on December 30, 2004. An application for patent term extension of U.S.
 Patent 6,197,819 B1, which contains product claims to pregabalin and its
 pharmaceutically acceptable salts, is being submitted concurrently with

this application and is based on the regulatory review period ending with the approval of NDA No. 21-446, which was also approved on December 30, 2004.

(11) A brief description of the significant activities undertaken by the marketing Applicant during the applicable regulatory review period with respect to the approved product and the significant dates applicable to such activities is appended as Exhibit F. (12) It is Applicant's opinion that United States Patent No. 6,001,876 is eligible, under 35 U.S.C. §156, for an extension of its term. The length of the extension claimed is 533 days. If this extension is granted, the term of such patent, which is currently set to expire on July 16, 2017, would not expire until December 30, 2018.

The requirements of 35 U.S.C. § 156(a) and 156(c)(4) have been satisfied as follows:

- U.S. Patent No. 6,001,876 claims a product, LYRICATM (pregabalin).
- U.S. Patent No. 6,001,876 has not yet expired. It is currently set to expire on July 16, 2017.
- The term of U.S. Patent No. 6,001,876 has never been extended.
- This application for extension is being submitted by Warner-Lambert Company LLC, the owner of rights in U.S. Patent No. 6,001,876, in accordance with the requirements of 35 U.S.C. § 156(d).
- The product, LYRICA™ (pregabalin), has been subject to a regulatory review period under section 505 of the Federal Food, Drug and Cosmetic Act before its commercial marketing or use, and permission for said commercial marketing or use is the first permitted commercial marketing or use under section 505 of the Federal Food, Drug and Cosmetic Act.
- No patent that claims pregabalin or a method of making or using pregabalin has been extended, and no application for extension

of such a patent has been filed for the regulatory review period which forms the basis for this application.

The length of extension of the term of U.S. Patent No. 6,001,876 of 533 days claimed by Applicant was determined according to the provisions of 35 U.S.C. § 156(c) and § 156(q) as follows:

- According to 35 U.S.C. § 156(c), the length of extension is equal
 to the regulatory review period for the approved product, as
 defined in 35 U.S.C. § 156(g), which occurred after the patent
 issued, subject to the provisions of paragraphs (1) to (4) of 35
 U.S.C. § 156(c) and the limitations of 35 U.S.C. § 156(q)(6).
- Under 35 U.S.C. § 156(a), the regulatory review period is the sum of (I) the number of days in the period beginning on the date on which an exemption under subsection 505(i) of the Federal Food, Drug and Cosmetic Act became effective for the approved product and ending on the date the NDA for the approved product was initially submitted under subsection 505 of the Federal Food, Drug and Cosmetic Act, and (II) the number of days in the period beginning on the date the NDA was initially submitted under subsection 505 of the Federal Food, Drug and Cosmetic Act and ending on the date the NDA was approved. As indicated in paragraph 10 of this application, the exemption under subsection 505 (i) became effective on August 24, 1997. As also indicated in paragraph 10, NDA No. 21-446 was submitted to the FDA on October 30, 2003, and was later divided by the FDA into separate NDA's according to indication - NDA No. 21-446 (neuropathic pain associated with diabetic peripheral neuropathy) and NDA No. 21-723 (neuropathic pain associated with herpes zoster

(postherpetic neuralgia)). As also indicated in paragraph 10, NDA No. 21-723 was approved on December 30, 2004. This application for extension of the term of U.S. Patent 6,001,876 is based on the regulatory review period that ended with the approval of NDA No. 21-723 on December 30, 2004. Therefore, the length of the regulatory review period is the sum of 2258 days and 427 days. This is 2685 days.

- U.S. Patent No. 6,001,876, issued on December 14, 1999. The portion of the regulatory review period that occurred after issuance of the patent is, therefore, 1843 days.
- Paragraphs (1) and (4) of 35 U.S.C. § 156(c) do not apply.
- Under 35 U.S.C. § 156(c)(2), the regulatory review period must be reduced by one-half of the period determined under 35 U.S.C. § 156 (g)(1)(B)(i) that occurred after the patent issued. As indicated in above in paragraph 12 of this application, the period determined under 35 U.S.C. § 156(g)(1)(B)(i) is 2258 days. The portion of this period that occurred after December 14, 1999, the date of issuance of the patent, is 1416 days. One-half of 1416 days is 708 days. Subtracting this amount, 708 days, from 1843 days (the portion of the regulatory review period that occurred after issuance of the patent) leaves a reduced extension of 1135 days.
- According to 35 U.S.C. § 156(c)(3), if the period remaining in the term of a patent after the date of approval of the approved product plus the regulatory review period as revised in accordance with 35 U.S.C. § 156(c)(1) and (2) exceeds fourteen

years, the period of extension shall be reduced so that the total of both periods does not exceed fourteen years. Adding the 1135 day period determined in subsection 12(B)(e) above to July 16, 2017, the expiration date of U.S. Patent 6, 001,876, gives a date of August 24, 2020. This date, August 24, 2020, is later than December 30, 2018, the date obtained by adding 14 years to the date of approval of the approved product. Therefore, in compliance with 35 U.S.C. § 156(c)(3), Applicant is claiming an extension period of 533 days rather than 1135 days. When the extension period of 533 days being claimed by Applicant is added to July 16, 2017, the current expiration date of U.S. Patent No. 6,001,876, the date obtained is December 30, 2018, the same date obtained by adding 14 years to the date of approval of the approved product. Hence, Applicant is in compliance with 35 U.S.C. § 156(c)(3).

- Because U.S. Patent No. 6,001,876 issued after the date of enactment of 35 U.S.C. § 156, the five-year limitation of § 156(g)(6)(A) applies. The extension period of 533 days claimed by Applicant does not exceed the five-year limitation on the extension period imposed by 35 U.S.C. § 156(g)(6)(A).
- (13) Applicant acknowledges a duty to disclose to the Commissioner of Patent and Trademarks and the Secretary of Health and Human Services any information, which is material to the determination of entitlement to the 533 day extension being sought to the term of the United States Patent No. 6,001,876.
- (14) The prescribed fee for receiving and acting on this application for extension is to be charged to Deposit Account 23-0455, as authorized in the enclosed transmittal letter.

(15) Please address all inquires and correspondence relating to this application for patent term extension to:

Karen DeBenedictis Warner-Lambert Company LLC 2800 Plymouth Road, 016/410E/PAT/6 Ann Arbor. MI 48105

Pursuant to 37 C.F.R. § 1.740(b), two identical copies of this application, with accompanying exhibits, are enclosed herewith. Pursuant to M.P.E.P. § 2753, an additional two copies of this application, with accompanying exhibits, are enclosed herewith. Accordingly, a total of four copies of these application papers and one original application for patent term extension of United States Patent No. 6,001,876 are submitted herewith.

Respectfully submitted,

Dated: 2/24/05

Aren DeBenedicis Karen DeBenedicis

Registration No. 32,977 Warner-Lambert Company LLC 2800 Plymouth Road Ann Arbor, MI 48105

Telephone: (734) 622-3374 Facsimile: (734) 622-1553



Public Health Service Food and Drug Administration Rockville, MD 20857



NDA 21-446

Pfizer Global Research and Development 2800 Plymouth Road Ann Arbor, Michigan 48105

Attention: Jonathan M. Parker, RPh, MS

Global Regulatory Leader, Regulatory Affairs

Dear Mr. Parker:

Pease refer to your new drug application (NDA) dated October 30, 2003, received October 31, 2003, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for LVRICA*W (prograbalin) Capsules, 25/507/51/00/150/200/225/300 ms.

We acknowledge receipt of your submissions dated November 7 and 20, 2003, and January 8, 12, 16, and 30, February 5, 12, 13, 16, 17, 20, 23, 25(3), 26, and 27, March 3, 17, 19, 30, and 31, April 6, 8, 9, 12, 19, 20, 21, 22, and 28, May 3, 4, 13, 17, 18, 19, 25, 26, and 27, June 2, 3, 4, 7, 9, 14, 18, 21, 22, 24, 25, 28, and 29, July 1, 2, 6, 7, 9, 14, 16, 20, 22, 26, and 27, and August 3, 5, 12, 18, 19, 20, 23, 24, and 25, September 3, 7 and 8, October 26, November 1(2), and December 30(2), 2004.

The November 1, 2004, submission constituted a complete response to our July 29, 2004, action letter.

This new drug application provides for the use of LYRICATM (pregabalin) Capsules for the management of neuropathic pain associated with diabetic peripheral neuropathy.

We have completed our review of this application, as amended, and it is approved, effective on the date of this letter, for use as recommended in the agreed-upon labeling text.

The final printed labeling (FPL) must be identical to the submitted labeling (text for the package insert and for the patient package insert submitted December 30, 2004). Immediate container and carton labels must be identical to those submitted July 9, 2004, with the addition of the word "Capsules" to the established name as agreed upon in the November 3, 2004, teleconference. Marketing the product with FPL that is not identical to the approved labeling text may render the product misbranded and an unapproved new drug.

NDA 21-446 Page 2

Please submit an electronic version of the FPL according to the guidance for industry titled Providing Regulatory Submissions in Electronic Format · NDA. Alternatively, you may submit 20 paper copies of the FPL as soon as it is available but no more than 30 days after it is printed. Individually mount 15 of the copies on heavy-weight paper or similar material. For administrative purposes, designate these submissions "FPL for approved NDA 21-446." Approval of this submission by FDA is not required before the labeling is used.

All applications for new active ingredients, new dosage forms, new indications, new routes of administration, and new dosing regimens are required to contain an assessment of the safety and effectiveness of the product in pediatric patients unless this requirement is waived or deferred. We are waiving the pediatric study requirement for this application.

The final scheduling of this product under the Controlled Substances Act is currently proceeding, but not yet complete as of the date of this letter. We not your commitment of December 30, 2004, not to market this drug until the scheduling is finalized. We further note that, when finalized, appropriate revisions will be made to the package insert, the patient-package insert and the product labeling through supplementation of your NDA. This would include the statements detailing the scheduling of Lyrica in the labeling, as required under 21-CFR 201.57 (h)(1).

We remind you of your postmarketing study commitments in your submission dated December 30, 2004. These commitments are listed below.

Complete an adequate and well-controlled clinical study or studies to better assess
the ophthalmologic effects of pregabalin

Protocol Submission: by 08/05 Study Start: by 07/06 Final Report Submission: by 01/09

 Complete an in vitro study of the propensity of pregabalin to induce CYP-enzyme metabolism

Protocol Submission: by 02/05 Study Start: by 03/05 Final Report Submission: by 12/05

 Complete adequate and well-controlled clinical studies to assess the effect of pregabalin on nerve conduction velocity (NCV)

Protocol Submission: by 04/04 Study Start: by 09/04 Final Report Submission: by 03/06

Submit clinical protocols to your IND for this product. Submit nonclinical and chemistry, manufacturing, and controls protocols and all study final reports to this NDA. In addition, under

NDA 21-446 Page 3

21 CFR 314.81(b)(2)(vii) and 314.81(b)(2)(viii), you should include a status summary of each commitment in your annual report to this NDA. The status summary should include expected summary completion and final report submission dates, any changes in plans since the last annual report, and, for clinical studies, number of patients entered into each study. All submissions, including supplements, relating to these postmarketing study commitments must be prominently labeled "Postmarketing Study Protocol", "Postmarketing Study Final Report", or "Postmarketing Study Correspondence."

In addition, submit three copies of the introductory promotional materials that you propose to use for this product. Submit all proposed materials in draft or mock-up form, not final print. Send one copy to the Division of Anesthetic, Critical Care and Addiction Drug Products and two copies of both the promotional materials and the package insert directly to:

Division of Drug Marketing, Advertising, and Communications, HFD-42 Food and Drug Administration 5600 Fishers Lane Rockville, MD 20857

Please submit one market package of the drug product when it is available.

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

The MedWatch-to-Manufacturer Program provides manufacturers with copies of serious adverse event reports that are received directly by the FDA. New molecular entities and important new biologics qualify for inclusion for three years after approval. Your firm is eligible to receive copies of reports for this product. To participate in the program, please see the enrollment instructions and program description details at www.fda.gov/medwatch/report/mmp.htm.

If you have any questions, call Lisa Malandro, Regulatory Project Manager, at (301) 827-7416.

Sincerely,

(See appended electronic signature page)

Robert J. Meyer, M.D Director Office of Drug Evaluation II Center for Drug Evaluation and Research

Enclosures

PROPOSED LABELING TEXT (NEUROPATHIC PAIN – DPN INDICATION-PHN INDICATION)

DRAFT US PACKAGE INSERT

PRODUCT NAME

LYRICA™ (pregabalin) 25, 50, 75, 100, 150, 200, 225, and 300-mg Capsules

Version Date: December 30, 2004

DESCRIPTION

Pregabalin is described chemically as (S)-3-(aminomethyl)-5-methylhexanoic acid. The molecular formula is $C_8H_{17}NO_2$ and the molecular weight is 159.23. The chemical structure of pregabalin is:

Pregabalin is a white to off-white, crystalline solid with a $pK_{\bullet 1}$ of 4.2 and a $pK_{\bullet 2}$ of 10.6. It is freely soluble in water and both basic and acidic aqueous solutions. The log of the partition coefficient (n-octanol/0.05M phosphate buffer) at pH 7.4 is -1.35.

LYRICA (pregabalin) Capsules are supplied as imprinted hard-shell capsules containing 25, 50, 75, 100, 150, 200, 225, and 300 mg of pregabalin, along with lactose monohydrate, comstarch, and talc as inactive ingredients. The capsule shells contain gelatin and titanium dioxide. In addition, the orange capsule shells contain red iron oxide and the white capsule shells contain sodium lauryl sulfate and colloidal silicon dioxide. Colloidal silicon dioxide is a manufacturing aid that may or may not be present in the capsule shells. The imprinting ink contains shellac, black iron oxide, propylene glycol, and potassium hydroxide.

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CLINICAL PHARMACOLOGY

Mechanism of Action

LYRICA (pregabalin) binds with high affinity to the alpha₂-delta site (an auxiliary subunit of voltage-gated calcium channels) in central nervous system tissues. Although the mechanism of action of pregabalin is unknown, results with genetically modified mice and with compounds structurally related to pregabalin (such as gabapentin) suggest that binding to the alpha₂-delta subunit may be involved in pregabalin's antinociceptive effects in animal models. In vitro, pregabalin reduces the calcium-dependent release of several neurotransmitters, possibly by modulation of calcium channel function.

While pregabalin is a structural derivative of the inhibitory neurotransmitter gammaaminohuryric acid (GABA), it does not bind directly to GABAa, GABAa, escapes of the benzodiazepine receptors, does not augment GABAA responses in cultured neurons, does not alter rat brain GABA concentration or have acute effects on GABA uptake or degradation. In vitro, pregabalin, like gabapentin, may affect the GABA transporter protein. Pregabalin does not block sodium channels, is not active at opiate receptors, and does not alter cyclooxygenase enzyme activity. It is inactive at serotonin and dopamine receptors and does not inhibit dopamine, serotonin, or noradrenaline reuptake.

Pharmacokinetics

Pregabalin is well absorbed after oral administration, is climinated largely by renal excretion, and has an elimination half-life of about 6 hours.

Absorption and Distribution

Following oral administration of pregabalin capsules under fasting conditions, peak plasma concentrations occur within 1.5 hours. Pregabalin oral bioavailability is ≥90% and is independent of dose. Following single- (25 to 300 mg) and multiple- dose (75 to 900 mg/day) administration, maximum plasma concentrations (Cmax) and area under the plasma concentration-trime curve (AUC) values increase linearly. Following repeated administration, steady state is achieved within 24 to 48 hours. Multiple-dose pharmacokinetics can be predicted from single-dose data.

The rate of pregabalin absorption is decreased when given with food, resulting in a decrease in Cmax of approximately 25% to 30% and an increase in Tmax to approximately 3 hours. However, administration of pregabalin with food has no clinically relevant effect on the total absorption of pregabalin. Therefore, pregabalin can be taken with or without food

Pregabalin does not bind to plasma proteins. The apparent volume of distribution of pregabalin following oral administration is approximately 0.5 L/kg. Pregabalin is a substrate for system L transporter which is responsible for the transport of large amino acids across the blood brain barrier. Although there are no data in humans, pregabalin has been shown to cross the blood brain barrier in mice, rats, and monkeys. In addition, pregabalin has been shown to cross the placenta in rats and is present in the milk of lactating rats.

Metabolism and Elimination

Pregabalin undergoes negligible metabolism in humans. Following a dose of radiolabeled pregabalin, approximately 90% of the administered dose was recovered in the urine as unchanged pregabalin. The N-methylated derivative of pregabalin, the major metabolite of pregabalin found in urine, accounted for 0.9% of the dose. In preclinical studies, pregabalin (S-enantiomer) did not undergo racemization to the R-enantiomer in mice, rats, rabbits, or monkeys.

Pregabalin is eliminated from the systemic circulation primarily by renal excretion as unchanged drug with a mean elimination half-life of 6.3 hours in subjects with normal renal function. Mean renal clearance was estimated to be 67.0 to 80.9 mL/min in young healthy subjects. Because pregabalin is not bound to plasma proteins this clearance rate indicates that renal tubular reabsorption is involved. Pregabalin elimination is nearly proportional to creatinine clearance (CLcr) (see Special Populations, Renal Impairment and DOSAGE AND ADMINISTRATION, Patients with Impaired Renal Function).

Special Populations

Race: In population pharmacokinetic analyses of the clinical studies in various populations, the pharmacokinetics of pregabalin were not significantly affected by race (Caucasians, Blacks, and Hispanics).

Gender: Population pharmacokinetic analyses of the clinical studies showed that the relationship between daily dose and pregabalin drug exposure is similar between genders.

Renal Impairment and Hemodialysis: Pregabalin clearance is nearly proportional to creatinine clearance (CLcr). Dosage reduction in patients with renal dysfunction is necessary. Pregabalin is effectively removed from plasma by hemodialysis. Following a 4-hour hemodialysis treatment, plasma pregabalin concentrations are reduced by approximately 50%. For patients on hemodialysis, dosing must be modified (see DOSAGE AND ADMINISTRATION. Patients with Renal Impairment).

Elderly: Pregabalin oral clearance tended to decrease with increasing age. This decrease in pregabalin oral clearance is consistent with age-related decreases in CLcr. Reduction of pregabalin dose may be required in patients who have age-related compromised renal function (see DOSAGE AND ADMINISTRATION, Patients with Renal Impairment).

Pediatric Pharmacokinetics: Pharmacokinetics of pregabalin have not been adequately studied in pediatric patients.

Drug Interactions:

In Vitro Studies: Pregabalin, at concentrations that were, in general, 10-times those attained in clinical trials, does not inhibit human CYPIA2, CYP2A6, CYP2C9, CYP2C19, CYP2D6, CYP2E1, and CYP3A4 enzyme systems. The potential of pregabalin to induce these enzymes has not been studied in vitro.

In Vivo Studies: The drug interaction studies described in this section were conducted in healthy adults, and across various patient populations.

Gabapentin: The pharmacokinetic interactions of pregabalin and gabapentin were investigated in 12 healthy subjects following concomitant single-dose administration of 100-mg pregabalin and 300-mg gabapentin and in 18 healthy subjects following concomitant multiple-dose administration of 200-mg pregabalin every 8 hours and 400-mg gabapentin every 8 hours. Gabapentin pharmacokinetics following single- and multiple-dose administration were unaltered by pregabalin coadministration. The extent of pregabalin absorption was unaffected by gabapentin coadministration, although there was a small reduction in rate of absorption.

Oral Contraceptive: Pregabalin coadministration (200 mg three times a day) had no effect on the steady-state pharmacokinetics of norethindrone and ethinyl estradiol (1 mg/35 μ g, respectively) in healthy subjects.

Lorazepam: Multiple-dose administration of pregabalin (300 mg twice a day) in healthy subjects had no effect on the rate and extent of lorazepam single-dose pharmacokinetics and single-dose administration of lorazepam (1 mg) had no effect on the steady-state pharmacokinetics of pregabalin.

Oxycodone: Multiple-dose administration of pregabalin (300 mg twice a day) in healthy subjects had no effect on the rate and extent of oxycodone single-dose pharmacokinetics. Single-dose administration of oxycodone (10 mg) had no effect on the steady-state pharmacokinetics of pregabalin.

Ethanol: Multiple-dose administration of pregabalin (300 mg twice a day) in healthy subjects had no effect on the rate and extent of ethanol single-dose pharmacokinetics and single-dose administration of ethanol (0.7 g/kg) had no effect on the steady-state pharmacokinetics of pregabalin.

Phenytoin, carbamazepine, valproic acid, and lamotrigine: Steady-state trough plasma concentrations of phenytoin, carbamazepine and carbamazepine 10,11 epoxide, valproic acid, and lamotrigine were not affected by concomitant pregabalin (200 mg three times a day) administration.

Population pharmacokinetic analyses in patients treated with pregabalin and various concomitant medications suggest the following:

Therapeutic class	Specific concomitant drug studied
Concomitant drug has no e	ffect on the pharmacokinetics of pregabalin
Hypoglycemics	Glyburide, insulin, metformin,
Diurctics	Furosemide
Antiepileptic Drugs	Tiagabine
	ffect on the pharmacokinetics of pregabalin and the pharmacokinetics of concomitant drug
Antiepileptic Drugs	Carbamazepine, lamotrigine, phenobarbital,

CLINICAL STUDIES

Neuropathic pain associated with diabetic peripheral neuropathy

The efficacy of the maximum recommended dose of LYRICA for the management of neuropathic pain associated with diabetic peripheral neuropathy was established in three double-blind, placebo-controlled, multicenter studies that enrolled 729 patients with three times a day dosing, two of which studied the maximum recommended dose.

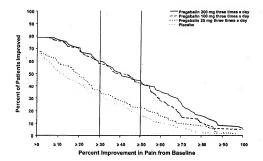
Studies DPN 1 and DPN 2 enrolled a total of 483 patients of which 89% completed the studies. Patients enrolled had Type 1 or 2 diabetes mellitus with a diagnosis of painful distal symmetrical sensorimotor polyneuropathy for 1 to 5 years. The patients had a minimum mean baseline pain score of ≥4 on an 11-point numerical pain rating scale ranging from 0 (no pain) to 10 (worst possible pain). The baseline mean pain scores across the two studies langed from 6.1 to 6.7. Patients were permitted up to 4 grams of acetaminophen per day as needed for pain, in addition to pregabalin. Patients recorded their pain daily in a diary.

Study DPN 1: This 5-week study of 337 patients (240 pregabalin and 97 placebo) compared LYRICA 25, 100, or 200 mg three times a day with placebo. Treatment with LYRICA 100 and 200 mg three times a day statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. There was no evidence of a greater effect on pain scores of the 200 mg three times a day dose than the 100 mg three times a day dose, but

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there was evidence of dose dependent adverse effects (see ADVERSE REACTIONS). For various degrees of improvement in pain from baseline to study endpoint, Figure 1 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

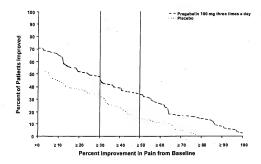
Figure 1: Patients Achieving Various Levels of Pain Relief



Study DPN 2: This 8-week study of 146 patients (76 pregabalin and 70 placebo) compared LYRICA 100 mg three times a day with placebo. Treatment with LYRICA 100 mg three times a day statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. For various degrees of improvement in pain from baseline to study endpoint, Figure 2 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not

complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 2: Patients Achieving Various Levels of Pain Relief



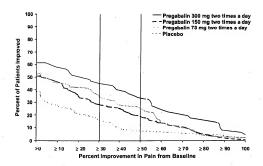
Postherpetic Neuralgia

The efficacy of LYRICA for the management of postherpetic neuralgia was established in three double-blind, placebo-controlled, multicenter studies. These studies enrolled 779 patients, of whom 566 completed the studies. These patients had neuralgia persisting for at least 3 months following healing of herpes zoster rash and a minimum baseline score of ≥4 on an 11-point numerical pain rating scale ranging from 0 (no pain) to 10 (worst possible pain). The baseline mean pain scores across the 3 studies ranged from 6 to 7. Patients were permitted up to 4 grams of acetaminophen per day as needed for pain, in addition to pregabalin. Patients recorded their pain daily in a diary.

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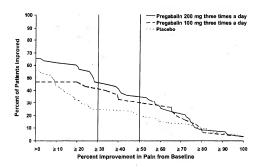
Study PHN 1: This 13-week study of 368 patients (275 pregabalin and 93 placebo) compared LYRICA 75, 150, and 300 mg twice daily with placebo. Patients with creatinine clearance (CLcr) between 30 to 60 mL/min were randomized to 75 mg, 150 mg, or placebo twice daily. Patients with creatinine clearance greater than 60 mL/min were randomized to 75 mg, 150 mg, 300 mg or placebo twice daily. In patients with creatinine clearance greater than 60 mL/min treatment with all doses of LYRICA statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. Despite differences in dosing based on renal function, patients with creatinine clearance between 30 to 60 mL/min tolerated LYRICA less well than patients with creatinine clearance greater than 60 mL/min as evidenced by higher rates of discontinuation due to adverse events. For various degrees of improvement in pain from baseline to study endpoint, Figure 3 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 3: Patients Achieving Various Levels of Pain Relief



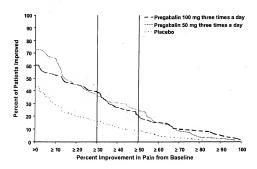
Study PHN 2: This 8-week study of 173 patients (89 pregabalin and 84 placebo) compared LYRICA 100 or 200 mg three times a day with placebo, with doses assigned based on creatinine clearance. Patients with creatinine clearance between 30 to 60 mL/min were treated with 100 mg three times a day, and patients with creatinine clearance greater than 60 mL/min were treated with 200 mg three times daily. Treatment with LYRICA statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. For various degrees of improvement in pain from baseline to study endpoint, Figure 4 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week I, which persisted throughout the study.

Figure 4: Patients Achieving Various Levels of Pain Relief



Study PHN 3: This 8-week study of 238 patients (157 pregabalin and 81 placebo) compared LYRICA 50 or 100 mg three times a day with placebo with doses assigned regardless of creatinine clearance. Treatment with LYRICA 50 and 100 mg three times a day statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. Patients with creatinine clearance between 30 to 60 mL/min tolerated LYRICA less well than patients with creatinine clearance greater than 60 mL/min as evidenced by markedly higher rates of discontinuation due to adverse events. For various degrees of improvement in pain from baseline to study endpoint, Figure 5 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 5: Patients Achieving Various Levels of Pain Relief



INDICATIONS AND USAGE

LYRICA is indicated for management of

- · Neuropathic pain associated with diabetic peripheral neuropathy
- · Postherpetic neuralgia

CONTRAINDICATIONS

LYRICA is contraindicated in patients with known hypersensitivity to pregabalin or any of its components.

WARNINGS

Tumorigenic Potential

In standard preclinical *in vivo* lifetime carcinogenicity studies of pregabalin, an unexpectedly high incidence of hemangiosarcoma was identified in two different strains of mice. (See PRECAUTIONS: Carcinogenesis, Mutagenesis, Impairment of Fertility). The clinical significance of this finding is unknown. Clinical experience during pregabalin's premarketing development provides no direct means to assess its potential for inducing tumors in humans.

In clinical studies across various patient populations, comprising 6396 patient-years of exposure in patients >12 years of age, new or worsening-preexisting tumors were reported in 57 patients. Without knowledge of the background incidence and recurrence in similar populations not treated with LYRICA, it is impossible to know whether the incidence seen in these cohorts is or is not affected by treatment.

PRECAUTIONS

Dizziness and Somnolence

Pregabalin causes dizziness and somnolence. Patients should be informed that pregabalin-related dizziness and somnolence may impair their ability to perform tasks such as driving or operating machinery (See PRECAUTIONS-Information for Patients).

In the pregabalin controlled trials, dizziness was experienced by 29% of pregabalintreated patients compared to 9% of placebo-treated patients; somnolence was experienced by 22% of pregabalin-treated patients compared to 8% of placebo-treated patients. Dizziness and somnolence generally began shortly after the initiation of pregabalin therapy and occurred more frequently at higher doses. Dizziness and somnolence were the adverse events most frequently leading to withdrawal (4% each) from controlled studies. In pregabalin-treated patients reporting these adverse events in short-term, controlled studies, dizziness persisted until the last dose in 31% and somnolence persisted until the last dose in 46% of patients.

Ophthalmological Effects

In controlled studies, a higher proportion of patients treated with pregabalin reported blurred vision (6%) than did patients treated with placebo (2%), which resolved in a majority of cases with continued dosing. Less than 1% of patients discontinued pregabalin treatment due to vision-related events (primarily blurred vision).

Prospectively planned ophthalmologic testing, including visual acuity testing, formal visual field testing and dilated funduscopic examination, was performed in over 3600 patients. In these patients, visual acuity was reduced in 7% of patients treated with pregabalin, and 5% of placebo-treated patients. Visual field changes were detected in 13% of pregabalin-treated, and 12% of placebo-treated patients. Funduscopic changes were observed in 2% of pregabalin-treated and 2% of placebo-treated patients.

Although the clinical significance of the ophthalmologic fludings is unknown, patients should be informed that if changes in vision occur, they should notify their physician. If visual disturbance persists, further assessment should be considered. More frequent assessment should be considered for patients who are already routinely monitored for ocular conditions (See PRECAUTIONS-Information for Patients).

Abrupt or Rapid Discontinuation

Following abrupt or rapid discontinuation of pregabalin, some patients reported symptoms including insomnia, nausea, headache, and diarrhea. Pregabalin should be tapered gradually over a minimum of 1 week rather than discontinued abruptly.

Weight Gain

Pregabalin treatment caused weight gain. In pregabalin controlled clinical trials of up to 13 weeks, a gain of 7% or more over baseline weight was observed in 8% of pregabalintreated patients and 2% of placebo-treated patients. Few patients treated with pregabalin (0.2%) withdrew from controlled trials due to weight gain. Pregabalin associated weight gain was related to dose and duration of exposure, but did not appear to be associated with baseline BMI, gender, or age. Weight gain was not limited to patients with edema (See Precautions-Peripheral Edema).

Although weight gain was not associated with clinically important changes in blood pressure in short-term controlled studies, the long-term cardiovascular effects of pregabalin-associated weight gain are unknown.

Among diabetic patients, pregabalin-treated patients gained an average of 1.6 kg (range: -16 to 16 kg), compared to an average 0.3 kg (range: -10 to 9 kg) weight gain in placebo patients. In a cohort of 333 diabetic patients who received pregabalin for at least 2 years, the average weight gain was 5.2 kg.

While the effects of pregabalin-associated weight gain on glycemic control have not been systematically assessed, in controlled and longer-term open label clinical trials with diabetic patients, pregabalin treatment did not appear to be associated with loss of glycemic control (as measured by HbA₁c).

Peripheral Edema

Pregabalin treatment caused edema, primarily described as peripheral edema. In shortterm trials of patients without clinically significant heart or peripheral vascular disease, there was no apparent association between perip heral edema and cardiovascular complications such as hypertension or congestive heart failure. Peripheral edema was not associated with laboratory changes suggestive of deterioration in renal or hepatic function.

In controlled clinical trials the incidence of peripheral edema was 6% in the pregabalin group compared with 2% in the placebo group. In controlled clinical trials, 0.6% of pregabalin patients and no placebo patients withdrew due to peripheral edema.

Higher frequencies of weight gain and peripheral edema were observed in patients taking both LYRICA and a thiazolidinedione antidiabetic agent compared to patients taking either drug alone. The majority of patients using thiazolidinedione antidiabetic agents in the overall safety database were participants in studies of pain associated with diabetic peripheral neuropathy. In this population, peripheral edema was reported in 3% (2/60) of patients who were using thiazolidinedione antidiabetic agents only, 8% (6/9859) of patients who were treated with pregabalin only, and 19% (23/120) of patients who were on both pregabalin and thiazolidinedione antidiabetic agents. Similarly, weight gain was reported in 0% (0/60) of patients on hiazolidinediones only; 4% (35/859) of patients on pregabalin only; and 7.5% (9/120) of patients on both drugs.

As the thiazolidinedione class of antidiabetic drugs can cause weight gain and/or fluid retention, possibly exacerbating or leading to heart failure, care should be taken when coadministering LYRICA and these agents.

Because there are limited data on congestive heart failure patients with New York Heart Association (NYHA) Class III or IV cardiac status, LYRICA should be used with caution in these patients.

Creatine Kinase Elevations

Pregabalin treatment was associated with creatine kinase elevations. Mean changes in creatine kinase from baseline to the maximum value were 60 U/L for pregabalin-reated patients and 28 U/L for the placebo patients. In all controlled trials across multiple patient populations, 2% of patients on pregabalin and 1% of placebo patients had a value of creatine kinase at least three times the upper limit of normal. Three pregabalin treated subjects had events reported as rhabdomyolysis in premarketing clinical trials. The relationship between these myopathy events and pregabalin is not completely understood because the cases had documented factors that may have caused or contributed to these events. Prescribers should instruct patients to promptly report unexplained muscle pain, tendemess, or weakness, particularly if these muscle symptoms are accompanied by malaise or fever. Pregabalin treatment should be discontinued if myopathy is diagnosed or suspected or if markedly elevated creatine kinase levels occur.

Laboratory Changes

Decreased Platelet Count

Pregabalin treatment was associated with a decrease in platelet count. Pregabalin-treated subjects experienced a mean maximal decrease in platelet count of $20 \times 10^3 \mu L$ compared to $11 \times 10^3 \mu L$ in placebo patients. In the overall database of controlled trials, 2% of placebo patients and 3% of pregabalin patients experienced a potentially clinically significant decrease in platelets, defined as 20% below baseline value and $< 150 \times 10^3 \mu L$. In randomized controlled trials, pregabalin was not associated with an increase in bleeding related adverse events.

ECG Changes

PR Interval Prolongation

Pregabalin treatment was associated with mild PR interval prolongation. In analyses of clinical trial ECG data, the mean PR interval increase was 3-6 mscc at pregabalin doses = 300 mg/day. This mean change difference was not associated with an increased risk of PR increase = 25% from baseline, an increased percentage of subjects with on-treatment PR > 200 mscc, or an increased risk of adverse events of second or third degree AV block.

Information for Patients

Patients should be counseled that LYRICA may cause dizziness, somnolence, blurred vision and other CNS signs and symptoms. Accordingly, they should be advised not to drive, operate complex machinery, or engage in other hazardous activities until they have gained sufficient experience on pregabalin to gauge whether or not it affects their mental, visual, and/or motor performance adversely.

Patients should be counseled that LYRICA may cause visual disturbances. Patients should be informed that if changes in vision occur, they should notify their physician (See PRECAUTIONS).

Patients should be advised to take LYRICA as prescribed. Abrupt or rapid discontinuation may result in insomnia, nausea, headache, or diarrhea.

Patients should be counseled that LYRICA may cause edema and weight gain.

Patients should be advised that concomitant treatment with LYRICA and a thiazolidinedione antidiabetic agent may lead to an additive effect on edema and weight gain. For patients with preexisting cardiac conditions, this may increase the risk of heart failure.

Patients should be instructed to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever.

Patients who require concomitant treatment with central nervous system depressants such as opiates or benzodiazepines should be informed that they may experience additive CNS side effects, such as somnolence.

Patients should be told to avoid consuming alcohol while taking LYRICA, as LYRICA may potentiate the impairment of motor skills and sedation of alcohol.

Patients should be instructed to notify their physician if they become pregnant or intend to become pregnant during therapy, and to notify their physician if they are breast feeding or intend to breast feed during therapy.

Men being treated with LYRICA who plan to father a child should be informed of the potential risk of male-mediated teratogenicity. In preclinical studies in rats, pregabalin was associated with an increased risk of male-mediated teratogenicity. The clinical significance of this finding is uncertain (see PRECAUTIONS - Carcinogenesis and Impairment of Fertility).

Diabetic patients should be instructed to pay particular attention to skin integrity while being treated with LYRICA. Some animals treated with pregabalin developed skin ulcerations, although no increased incidence of skin lesions associated with LYRICA was observed in clinical trials (see Animal Toxicolory).

Patients should be informed of the availability of a patient information leaflet, and they should be instructed to read the leaflet prior to taking LYRICA.

Drug Interactions

Since pregabalin is predominantly excreted unchanged in the urine, undergoes negligible metabolism in humans (<2% of a dose recovered in urine as metabolites), and does not bind to plasma proteins, its pharmacokinetics are unlikely to be affected by other agents through metabolic interactions or protein binding displacement. In vitro and in vivo studies showed that LYRICA is unlikely to be involved in significant pharmacokinetic drug interactions. Specifically, there are no pharmacokinetic interactions between pregabalin and the following antiepileptic drugs: carbamazepine, valproic acid, lamotrigine, phenytoin, phenobarbital, and topiramate. Important pharmacokinetic interactions would also not be expected to occur between pregabalin and commonly used antiepileptic drugs (See CLINICAL PHARMACOLOGY).

Pharmacodynamics

Multiple oral doses of pregabalin were co-administered with oxycodone, lorazepam, or ethanol. Although no pharmacokinetic interactions were seen, additive effects on cognitive and gross motor functioning were seen when pregabalin was co-administered with those drugs. No clinically important effects on respiration were seen (See PRECAUTIONS, Dizziness and Somnolence and Information for Patients).

Animal Toxicology

Dermatopathy

Skin lesions ranging from erythema to necrosis were seen in repeated-dose toxicology studies in both rats and monkeys. The etiology of these skin lesions is unknown. At the maximum recommended human dose (MRD) of 600 mg/day, there is a 2-fold safety

margin for the dermatological lesions. The more severe dermatopathies involving necrosis were associated with pregabalin exposures (as expressed by plasma AUCs) of approximately 3 to 8 times those achieved in humans given the MRD. No increase in incidence of skin lesions was observed in clinical studies.

Ocular lesions

Ocular lesions (characterized by retinal atrophy [including loss of photoreceptor cells] and/or comeal inflammation/mineralization) were observed in two lifetime carcinogenicity studies in Wistar rats. These findings were observed at plasma pregabalin exposures (AUC) = 2 times those achieved in humans given the maximum recommended dose of 600 mg/day. A no-effect dose for ocular lesions was not established. Similar lesions were not observed in lifetime carcinogenicity studies in two strains of mice or in monkeys treated for 1 year. The clinical significance of this finding in rats is unknown.

Effects in Juvenile Animals

In studies in which pregabalin (50 to 500 mg/kg) was orally administered to young rats from early in the postnatal period (Postnatal Day 7) through sexual maturity, neurobehavioral abnormalities (deficits in learning and memory, altered locomotor activity, decreased auditory startle responding and habituation) and reproductive impairment (delayed sexual maturation and decreased fertility in males and females) were observed at doses = 50 mg/kg. The neurobehavioral changes (except for locomotor activity) persisted in animals tested after cessation of dosing and, thus, were considered to represent long-term effects. The low effect dose for developmental neurotoxicity and reproductive impairment in juvenile rats (50 mg/kg) was associated with a plasma pregabalin exposure (AUC) approximately equal to human exposure at the maximum recommended dose of 600 mg/day. A no-effect dose was not established.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

A dose-dependent increase in the incidence of malignant vascular turnors (hemangiosarcomas) was observed in two strains of mice (B6C3F1 and CD-1) given pregabalin (200, 1000, or 5000 mg/kg) in the diet for two years. Plasma pregabalin

exposure (AUC) in mice receiving the lowest dose that increased hemangiosarcomas was approximately equal to the human exposure at the maximum recommended dose (MRD) of 600 mg/day. A no-effect dose for induction of hemangiosarcomas in mice was not established. No evidence of carcinogenicity was seen in two studies in Wistar rats following dietary administration of pregabalin for two years at doses (50, 150, or 450 mg/kg in males and 100, 300, or 900 mg/kg in females) that were associated with plasma exposures in males and females up to approximately 14 and 24 times, respectively, human exposure at the MRD. The clinical significance of this finding in mice is unknown.

Mutagenesis

Pregabalin was not mutagenic in bacteria or in mammalian cells in vitro, was not clastogenic in mammalian systems in vitro and in vivo, and did not induce unscheduled DNA synthesis in mouse or rat hepatocytes.

Impairment of Fertility

In fertility studies in which male rats were orally administered pregabalin (50 to 2500 mg/kg) prior to and during mating with untreated females, a number of adverse reproductive and developmental effects were observed. These included decreased sperm counts and sperm motility, increased sperm abnormalities, reduced fertility, increased preimplantation embryo loss, decreased litter size, decreased fetal body weights, and an increased incidence of fetal abnormalities. Effects on sperm and fertility parameters were reversible in studies of this duration (3-4 months). The no-effect dose for male reproductive toxicity in these studies (100 mg/kg) was associated with a plasma pregabalin exposure (AUC) approximately 3 times human exposure at the maximum recommended dose (MRD) of 600 mg/day.

In addition, adverse effects on reproductive organ (testes, epididymides) histopathology were observed in male rats exposed to pregabalin (500 to 1250 mg/kg) in general toxicology studies of four weeks or greater duration. The no-effect dose for male reproductive organ histopathology in rats (250 mg/kg) was associated with a plasma exposure approximately 8 times human exposure at the MRD.

In a fertility study in which female rats were given pregabalin (500, 1250, or 2500 mg/kg) orally prior to and during mating and early gestation, disrupted estrous cyclicity and an increased number of days to mating were seen at all doses, and embryolethality occurred at the highest dose. The low dose in this study produced a plasma exposure approximately 9 times that in humans receiving the MRD. A no-effect dose for female reproductive toxicity in rats was not established. The clinical significance of female fertility findings in animals is unknown.

Human Data

In a double-blind, placebo-controlled clinical trial to assess the effect of pregabalin on sperm motility, 30 healthy male subjects were exposed to pregabalin at a dose of 600 mg/day. After 3 months of treatment (one complete sperm cycle), the difference between placebo- and pregabalin-treated subjects in mean percent sperm with normal motility was <4% and neither group had a mean change from baseline of more than 2%. Effects on other male reproductive parameters in humans have not been adequately studied.

Pregnancy

Pregnancy Category C

Increased incidences of fetal structural abnormalities and other manifestations of developmental toxicity, including lethality, growth retardation, and nervous and reproductive system functional impairment, were observed in the offspring of rats and rabbits given pregabalin during pregnancy, at doses that produced plasma pregabalin exposures (AUC) \geq 5 times human exposure at the maximum recommended dose (MRD) of 600 mg/day.

When pregnant rats were given pregabalin (500, 1250, or 2500 mg/kg) orally throughout the period of organogenesis, incidences of specific skull alterations attributed to abnormally advanced ossification (premature fusion of the jugal and nasal sutures) were increased at =1250 mg/kg, and incidences of skeletal variations and retarded ossification were increased at all doses. Fetal body weights were decreased at the highest dose. The low dose in this study was associated with a plasma exposure (AUC) approximately 17

times human exposure at the MRD of 600 mg/day. A no-effect dose for rat embryo-fetal developmental toxicity was not established.

When pregnant rabbits were given pregabalin (250, 500, or 1250 mg/kg) orally throughout the period of organogenesis, decreased fetal body weight and increased incidences of skeletal malformations, visceral variations, and retarded ossification were observed at the highest dose. The no-effect dose for developmental toxicity in rabbits (500 mg/kg) was associated with a plasma exposure approximately 16 times human exposure at the MRD.

In a study in which female rats were dosed with pregabalin (50, 100, 250, 1250, or 2500 mg/kg) throughout gestation and lactation, offspring growth was reduced at = 100 mg/kg and offspring survival was decreased at = 250 mg/kg. The effect on offspring survival was pronounced at doses = 1250 mg/kg, with 100% mortality in high-dose litters. When offspring were tested as adults, neurobehavioral abnormalities (decreased auditory startle responding) were observed at = 250 mg/kg and reproductive impairment (decreased fertility and litter size) was seen at 1250 mg/kg. The no-effect dose for pre- and postnatal developmental toxicity in rats (50 mg/kg) produced a plasma exposure approximately 2 times human exposure at the MRD.

There are no adequate and well-controlled studies in pregnant women. LYRICA should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Labor and Delivery: The effects of pregabalin on labor and delivery in pregnant women are unknown. In the prenatal-postnatal study in rats, pregabalin prolonged gestation and induced dystocia at exposures \geq 50 times the mean human exposure (AUC_(0.29) of 123 µg·hr/mL) at the maximum recommended clinical dose of 600 mg/day.

Use in Nursing Mothers: It is not known if pregabalin is excreted in human milk; it is, however, present in the milk of rats. Because many drugs are excreted in human milk, and because of the potential for tumorigenicity shown for pregabalin in animal studies, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use

The safety and efficacy of pregabalin in pediatric patients have not been established.

Geriatric Use

In controlled clinical studies of LYRICA in neuropathic pain associated with diabetic peripheral neuropathy, 306 patients were 65 to 74 years of age, and 88 patients were 75 years of age or older.

In controlled clinical studies of LYRICA in neuropathic pain associated with postherpetic neuralgia, 282 patients were 65 to 74 years of age, and 379 patients were 75 years of age or older.

No overall differences in safety and efficacy were observed between these patients and younger patients. Even though the incidence of adverse events did not increase with age, greater sensitivity of some older individuals cannot be ruled out. LYRICA is known to be substantially excreted by the kidney, and the risk of toxic reactions to LYRICA may be greater in patients with impaired renal function.

Because LYRICA is eliminated primarily by renal excretion, the dose should be adjusted for elderly patients with renal impairment, as noted in the DOSAGE AND ADMINISTRATION section.

ADVERSE REACTIONS

In all controlled and uncontrolled trials across various patient populations during the premarketing development of pregabalin, more than 9000 patients have received pregabalin. Approximately 4300 patients were treated for 6 months or more, over 2700 patients were treated for 1 year or longer, and over 1000 patients were treated for at least 2 years.

Adverse Events Most Commonly Leading to Discontinuation in All Controlled Clinical Studies

In controlled trials of all populations combined, 14% of patients treated with pregabalin and 7% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the adverse events most frequently leading to discontinuation were dizziness (4%) and sommolence (3%). In the placebo group, 1% of patients withdrew due to dizziness and <1% withdrew due to somnolence. Other adverse events that led to discontinuation from controlled trials more frequently in the pregabalin group compared to the placebo group were ataxia, confusion, asthenia, thinking abnormal, blurred vision, incoordination, and peripheral edema (1% each)

Most Common Adverse Events in All Controlled Clinical Studies

In controlled trials of all patient populations combined, dizziness, somnolence, dry mouth, edema, blurred vision, weight gain, and "binking abnormal" (primarily difficulty with concentration/attention) were more commonly reported by subjects treated with pregabalin than by subjects treated with placebo (≥5% and twice the rate of that seen in placebo).

Controlled Studies with Neuropathic Pain Associated with Diabetic Peripheral Neuropathy

Adverse Events Leading to Discontinuation

In clinical trials in patients with neuropathic pain associated with diabetic peripheral neuropathy, 9% of patients treated with pregabalin and 4% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the most common reasons for discontinuation due to adverse events were dizziness (3 %) and somnolence (2 %). In comparison, <1% of placebo patients withdrew due to dizziness and somnolence. Other reasons for discontinuation from the trials, occurring with greater frequency in the pregabalin group than in the placebo group, were asthenia, confusion, and peripheral edema. Each of these events led to withdrawal in approximately 1% of patients.

Most Common Adverse Events

Table 1 lists all adverse events, regardless of causality, occurring in = 1% of patients with neuropathic pain associated with diabetic neuropathy in the combined pregabalin group for which the incidence was greater in this combined pregabalin group than in the placebo group. A majority of pregabalin-treated patients in clinical studies had adverse events with a maximum intensity of "mild" or "moderate".

Table 1. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Diabetic Peripheral Neuropathy (Events in at least 1% of all LYRICA-treated patients and at least numerically more in all pregabalin than in the placebo group)

Body system - Preferred term	75 mg/day [N=77] %	150 mg/day [N=212] %	300 mg/day [N=321] %	600 mg/day [N=369] %	All PGB* [N=979] %	Placebo [N=459]
Body as a whole						
Asthenia	4	2	4	7	5	2
Accidental injury	5	2	2	6	4	3
Back pain	0	2	1	2 ·	2	0
Chest pain	4	1	1	2	2	1
Face edema	0	1	1	2	1	0
Digestive system						
Dry mouth	3	2	5	7	5	1
Constipation	0	2	4	6	4	2
Flatulence	3	0	2	3	2	1
Metabolic and nutrition	al disorders					
Peripheral edema	4	6	9	12	9	2
Weight gain	0	4	- 4	6	4	0
Edema	ō	2	4	2	2	0
Hypoglycemia	1	3	2	1	2 .	1
Nervous system						
Dizziness	8	9	23	29	21	5
Somnolence	4	6	13	16	12	3
Neuropathy	ý	2	2	5	4	3
Ataxia	6	1	2	4	3	ı
Vertigo	1	2	2	4	3	1
Confusion	0	1	2	3	2	1
Euphoria	0	0	3	2	2	0
Incoordination	1	0	2	2	2	0
Thinking abnormaf	1	0	1	3	2	0
Tremor	1	- 1	1	2	1	0
Abnormal gait	1	0	1	3	1	0
Amnesia	3	- 1	0	2	1	0
Nervousness	0	1	1	1	1	0
Respiratory system						
Dyspnea	3	0	2	2	2	1

Table 1. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Diabetic Peripheral Neuropathy (Events in at least 1% of all LYRICA-treated patients and at least

Body system - Preferred term	75 mg/day [N=77] %	150 mg/day [N=212] %	300 mg/day [N=321] %	600 mg/day [N=369] %	All PGB* [N=979] %	Placebo {N=459} %
Special senses						
Blurry vision ^b	3	-1	3	6	4	2
Abnormal vision	1	0	ı	1	1	0
*PGB: pregabalin Thinking abnorma but also includes e	vents related to	cognition a	nd language pr	ficulty with	concentrati	on/attentio king.

Controlled Studies in Postherpetic Neuralgia

Adverse Events Leading to Discontinuation

In clinical trials in patients with postherpetic neuralgia, 14% of patients treated with pregabalin and 7% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the most common reasons for discontinuation due to adverse events were dizziness (4%) and somnolence (3%). In comparison, less than 1% of placebo patients withdrew due to dizziness and somnolence. Other reasons for discontinuation from the trials, occurring in greater frequency in the pregabalin group than in the placebo group, were confusion (2%), as well as peripheral edema, asthenia, ataxia, and abnormal gait (1% each).

Most Common Adverse Events

Table 2 lists all adverse events, regardless of causality, occurring in = 1% of patients with neuropathic pain associated with postherpetic neuralgia in the combined pregabalin group for which the incidence was greater in this combined pregabalin group than in the placebo group. In addition, an event is included, even if the incidence in the all pregabalin group is not greater than in the placebo group, if the incidence of the event in the 600 mg/day group is more than twice that in the placebo group. A majority of

pregabalin-treated patients in clinical studies had adverse events with a maximum intensity of "mild" or "moderate".

Table 2. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Postherpetic Neuralgia (Events in at least 1% of all LYRICA-treated patients and at least numerically more in all pregabalin than in the placebo group)

Body system - Preferred term							
- rielelled tenn	75 mg/d	150 mg/d	300 mg/d		All PGB*	Placebo	
	[N=84]	[N=302]	[N=312]	[N=154] %	[N-852] %	[N-398] %	J
	%	%	76	74	76	76	
Body as a whole							-
Infection	14	8	6	3	7	4	
Headache	5	9	5	8	7	5	
Pain	5	4	5	5	5	4	
Accidental injury	4	3	3	5	3	2	
Flu syndrome	1	2	2	1	2	1	
Face edema	0	2	1	3	2	1 .	
Digestive system							
Dry mouth	7	7	6	15	8	3	
Constination	4 :	5	5	5	5	2	
Flatulence	2	1	2	3	2	1	
Vomiting	1	1	3	3	2	1	
Metabolic and nutrition	nal disorders						
Peripheral edema	0	8	16	16	12	4	
Weight gain	1	2	5	7	4	0	
Edema	0	1	2	6	2	1	
Musculoskeletal syster	m						
Myasthenia	1	1	1	1	1	0	
Nervous system							
Dizziness	11	18	31	37	26	9	
Somnolence	8	12	18	25	16	5	
Ataxia	1	2	5	9	5	1	
Abnormal gait	0	2	4	8	4	1	
Confusion	1	2	3	7	3	0	
Thinking abnormaf	0	2	1	6	2	2	
Incoordination	2	2	.1	3	2	0	
Amnesia	0	1	1	4	2	0	
Speech disorder	0	0	1	3	1	0	
Respiratory system							
Denmahisia				2	1		

Table 2. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Postherpetic Neuralgia (Events in at least 1% of all LYRICA-treated patients and at least numerically

more in a						
- Preferred term	75 mg/d [N=84[%	150 mg/d [N=302] %	300 mg/d [N=312] %	600 mg/d [N=154] %	All PGB* [N=852] %	Placebo [N=398] %
Special senses						
Blurry vision ^b	1	5	5	9	5	3
Diplopia	0	2	2	4	2	0
Abnormal vision	0	ı	2	5	2	0
Eye Disorder	0	1	1	2	1	0
Urogenital System						
Urinary Incontinence	0	1	- 1	2	1	0

*PGB: pregabalin

Other Adverse Events Observed During the Clinical Studies of LYRICA (pregabalin)

Following is a list of treatment-emergent adverse events reported by patients treated with LYRICA during all clinical trials. The listing does not include those events already listed in the previous tables or elsewhere in labeling, those events for which a drug cause was remote, those events which were so general as to be uninformative, and those events reported only once which did not have a substantial probability of being acutely lifethreatenine.

Events are categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients; infrequent adverse events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients. Events of major clinical importance are described in the WARNINGS and PRECAUTIONS sections.

Thinking abnormal primarily consists of events related to difficulty with concentration/attention but also includes events related to cognition and language problems and slowed thinking.

Investigator term; summary level term is amblyopia

Body as a Whole - Frequent: Abdominal pain, Allergic reaction, Fever, Infrequent: Abscess, Cellulitis, Chills, Makise, Neck rigidity, Overdose, Pelvic pain, Photosensitivity reaction, Suicide attempt, Rare: Anaphylactoid reaction, Ascites, Hangover effect, Shock, Suicide

Cardiovascular System - Infrequent: Deep thrombophlebitis, Heart failure, Hypotension, Postural hypotension, Retinal vascular disorder, Syncope

Digestive System – Frequent: Gastroenteritis, Increased appetite; Infrequent: Cholecystitis, Cholelithiasis, Colitis, Dysphagia, Esophagitis, Gastritis, Gastrointestinal hemorrhage, Melena, Mouth ulceration, Pancreatitis, Rectal hemorrhage, Tongue edema; Rare: Anthhous stomatitis

Heutic and Lymphatic System - Frequent: Ecchymosis; Infrequent: Anemia, Eosinophilia, Hypochromic anemia, Leukocytosis, Leukopenia, Lymphadenopathy, Thrombocytopenia; Rare: Polycythemia, Prothrombin decreased, Purpura, Thrombocythemia

Musculoskeletal System - Frequent: Arthralgia, Leg cramps, Myalgia, Myasthenia; Infrequent: Arthrosis

Nervous System – Frequent: Anxiety, Depersonalization, Hypertonia, Hypesthesia, Libido decreased, Nystagmus, Paresthesia, Stupor, Twitching, Infrequent: Abnormal dreams, Agitation, Apathy, Aphasia, Circumoral paresthesia, Dysarthria, Hallucinations, Hostility, Hyperalgesia, Hyperesthesia, Hyperkinesia, Hypokinesia, Hypotonia, Libido increased, Myoclonus, Neuralgia, Rare: Addiction, Cerebellar syndrome, Cogwheel rigidity, Coma, Delirium, Dyskinesia, Dystonia, Encephalopathy, Extrapytamidal syndrome, Guillain barre syndrome, Hypalgesia, Intracranial hypertension, Manic reaction, Paranoid reaction, Peripheral neuritis, Psychotic depression, Schizophrenic reaction, Torticollis. Trismus

Respiratory System -Rare: Apnea, Atelectasis, Bronchiolitis, Hiccup, Laryngismus, Lung edema, Lung fibrosis, Yawn

Skin and Appendages – Frequent: Pruritus, Infrequent: Alopecia, Dry skin, Eczema, Hirsutism, Skin ulcer, Urticaria, Vesiculobullous rash; Rare: Angioedema, Exfoliative dermatitis, Lichenoid dermatitis, Melanosis, Petechial rash, Purpuric rash, Pustular rash, Skin atrophy, Skin necrosis, Skin nodule, Stevens-Johnson syndrome, Subcutaneous nodule

Special senses—Frequent: Conjunctivitis, Diplopia, Otitis media, Tinnitus; Infrequent: Abnormality of accommodation, Blepharitis, Dry eyes, Eye hemorrhage, Hyperacusis, Photophobia. Retinal edema. Taste loos. Taste perversion: Rare: Anisocoria. Blindness. Corneal ulcer, Exophthalmos, Extraocular palsy, Iritis, Keratitis, Keratoconjunctivitis, Miosis, Mydriasis, Night blindness, Ophthalmoplegia, Optic atrophy, Papilledema, Parosmia, Ptosis

Urogenital System – Frequent: Anorgasmia, Impotence, Urinary frequency, Urinary incontinence, Infrequent: Abnormal ejaculation, Albuminuria, Amenorrhea, Dysmenorrhea, Dysuria, Hematuria, Kidney calculus, Leukorrhea, Menorrhagia, Metrorrhagia, Nephritis, Oliguria, Urinary retention, Rare: Acute kidney failure, Balanitis, Cervicitis, Dyspareunia. Epididymitis. Female lactation, Glomerulitis

Comparison of Gender and Race

The overall adverse event profile of pregabalin was similar between women and men. There are insufficient data to support a statement regarding the distribution of adverse experience reports by race.

DRUG ABUSE AND DEPENDENCE

In a study of recreational users (N=15) of sedative/hypnotic drugs, including alcohol, Lyrica (450mg, single dose) received subjective ratings of "good drug effect," "high" and

"liking" to a degree that was similar to diazepam (30mg, single dose). In controlled clinical studies in over 5500 patients, 4 % of Lynica-treated patients and 1 % of placebotreated patients overall reported euphoria as an adverse event, though in some patient populations studied, this reporting rate was higher and ranged from 1 to 12%. In clinical studies, following abrupt or rapid discontinuation of pregabalin, some patients reported symptoms including insomnia, nausea, headache or diarrhea (See PRECAUTIONS, Abrupt Discontinuation), suggestive of physical dependence.

Pregabalin is not known to be active at receptor sites associated with drugs of abuse. As with any CNS active drug, physicians should carefully evaluate patients for history of drug abuse and observe them for signs of LYRICA misuse or abuse (e.g., development of tolerance, dose escalation, drug-seeking behavior).

OVERDOSAGE

Signs, Symptoms and Laboratory Findings of Acute Overdosage in Humans

There is limited experience with overdose of pregabalin. The highest reported accidental overdose of pregabalin during the clinical development program was 8000 mg, and there were no notable clinical consequences. In clinical studies, some patients took as much as 2400 mg/day. The types of adverse events experienced by patients exposed to higher doses (= 900 mg) were not clinically different from those of patients administered recommended doses of pregabalin.

Treatment or Management of Overdose

There is no specific antidote for overdose with pregabalin. If indicated, elimination of unabsorbed drug may be attempted by emesis or gastric lavage; usual precautions should be observed to maintain the airway. General supportive care of the patient is indicated including monitoring of vital signs and observation of the clinical status of the patient. A Certified Poison Control Center should be contacted for up-to-date information on the management of overdose with pregabalin.

Although hemodialysis has not been performed in the few known cases of overdose, it may be indicated by the patient's clinical state or in patients with significant renal impairment. Standard hemodialysis procedures result in significant clearance of pregabalin (approximately 50% in 4 hours).

DOSAGE AND ADMINISTRATION

LYRICA™ is given orally with or without food.

Neuropathic pain associated with diabetic peripheral neuropathy

The maximum recommended dose of LYRICA is 100 mg three times a day (300 mg/day) in patients with creatinine clearance of at least 60 mL/min. Dosing should begin at 50 mg three times a day (150mg/day) and may be increased to 300 mg/day within 1 week based on efficacy and tolerability. Because LYRICA is eliminated primarily by renal excretion, the dose should be adjusted for patients with reduced renal function (see Patients with Renal Impairment).

Although LYRICA was also studied at 600 mg/day, there is no evidence that this dose confers additional significant benefit and this dose was less well tolerated. In view of the dose-dependent adverse effects, treatment with doses above 300 mg/day are not recommended (see ADVERSE REACTIONS).

When discontinuing LYRICA, taper gradually over a minimum of 1 week.

Postherpetic neuralgia

The recommended dose of LYRICA is 75 to 150 mg two times a day, or 50 to 100 mg three times a day (150 to 300 mg/day) in patients with creatinine clearance of at least 60 mL/min. Dosing should begin at 75 mg two times a day, or 50 mg three times a day (150 mg/day) and may be increased to 300 mg/day within 1 week based on efficacy and tolerability. Because LYRICA is eliminated primarily by renal excretion, the dose should be adjusted for patients with reduced renal function (see Patients with Renal Impairment).

Patients who do not experience sufficient pain relief following 2 to 4 weeks of treatment with 300 mg/day, and who are able to tolerate LYRICA, may be treated with up to 300 mg two times a day, or 200 mg three times a day (600 mg/day). In view of the dose-dependent adverse effects and the higher rate of treatment discontinuation due to adverse events, dosing above 300 mg/day should be reserved only for those patients who have ongoing pain and are tolerating 300 mg daily (see Adverse Reactions).

When discontinuing LYRICA, taper gradually over a minimum of 1 week.

Patients with Renal Impairment:

In view of dose-dependent adverse events and since Lyrica is eliminated primarily by renal excretion, the dose should be adjusted in patients with reduced renal function. Dosage adjustment in patients with renal impairment should be based on CLcr, as indicated in Table 3. To use this dosing table, an estimate of the patient's CLcr in mL/min is needed. CLcr in mL/min may be estimated from serum creatinine (mg/dL) determination using the Cockeroft and Gault equation:

$$CL_{Cr} = \frac{\left[140 - \text{age (years)}\right] \times \text{weight (kg)}}{72 \times \text{serum creatinine (mg/dL)}} (\times 0.85 \text{ for female patients)}$$

For patients undergoing hemodialysis, pregabalin daily dose should be adjusted based on renal function. In addition to the daily dose adjustment, a supplemental dose should be given immediately following every 4-hour hemodialysis treatment (see Table 3).

Table 3: Pregabatin Dosage Adjustment Based on Renal Function

Creatinine Clearance (CLcr) (mL/min)	Total Pregabal	Dose Regimen		
≥60	150	300	600	BID or TID
30-60	75	150	300	BID or TID
15-30	25-50	75	150	QD or BID
<15	25	25-50	75	QD
Sur	plementary dosa	ge following he	emodialysis	(mg) ^b

Patients on the 25 mg QD regimen: take one supplemental dose of 25 mg or 50 mg Patients on the 25-50 mg QD regimen: take one supplemental dose of 50 mg or 75 mg Patients on the 75 mg QD regimen: take one supplemental dose of 100 mg or 150 mg Patients on the 75 mg QD regimen: take one supplemental dose of 100 mg or 150 mg TID = Three divided doses; BID = Two divided doses; QD = Single daily dose;

HOW SUPPLIED

25-mg capsules:

White, hard-gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 25" on the body; available in:

Bottles of 90 capsules:

NDC0071-1012-68

Unit-Dose Blister Packages of 100:

NDC0071-1012-41

50-mg capsules:

White, hard-gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 50" and an

ink band on the body, available in:

Bottles of 90:

NDC0071-1013-68

Unit-Dose Blister Packages of 100:

NDC0071-1013-41

Total daily dose (mg/day) should be divided as indicated by dose regimen to

provide mg/dose.

b Supplementary dose is a single additional dose.

75-mg capsules:

White/orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 75"

on the body; available in:

Bottles of 90: NDC0071-1014-68
Unit-Dose Blister Packages of 100: NDC0071-1014-41

100-mg capsules:

Orange, hard-gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 100" on

the body, available in:

Bottles of 90: NDC0071-1015-68
Unit-Dose Blister Packages of 100: NDC0071-1015-41

150-mg capsules:

White hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 150" on the

body, available in:

Bottles of 90 capsules: NDC0071-1016-68

Unit-Dose Blister Packages of 100: NDC0071-1016-41

200-mg capsules:

Light orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 200"

on the body, available in:

NDC0071-1017-68

Unit-Dose Blister Packages of 100:

NDC0071-1017-41

225-mg capsules:

White/light orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN

225" on the body; available in:

Bottles of 90: NDC0071-1019-68

Unit-Dose Blister Packages of 100: NDC0071-1019-41

300-mg capsules:

White/orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 300" on the body, available in:

Bottles of 90: NDC0071-1018-68

Unit-Dose Blister Packages of 100: NDC0071-1018-41

Storage

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) (see USP Controlled Room Temperature).

Rx Only



Parke - Davis Division of Pfizer Inc New York, NY 10017

PATIENT INFORMATION



Read the Patient Information that comes with LYRICA before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your condition or treatment. If you have any questions about LYRICA, ask your doctor or pharmacist.

What is the most important information I should know about LYRICA?

- 1. LYRICA may cause dizziness and sleepiness.
 - Do not drive a car, work with machines, or do other dangerous activities until you know how LYRICA affects how alert you are. Ask your doctor when it is okay to do these activities
- LYRICA may cause problems with your eyesight, including blurry vision.
 - · Call your doctor if you have any changes in your cycsight.

What is LYRICA?

LYRICA is a prescription medicine used in adults, 18 years and older, to treat pain from damaged nerves (neuropathic pain) that:

- · happens with diabetes, or
- follows healing of shingles (a painful rash that comes after a herpes zoster infection)

Diabetes and shingles can damage your nerves. Pain from damaged nerves may feel sharp, burning, intalign, abooting, or numb. If you have diabetes, the pain can be in your arms, hands, fingers, legs, feet, or toes. If you have shingles, the pain is in the area of your rash. You may experience this kind of pain even with a very light touch. LYRICA can help relieve the pain. Some people taking LYRICA had less pain by the end of the first week of LYRICA therapy. LYRICA may not ownk for everyone.

LYRICA has not been studied for nerve pain in children under 18 years of age.

Who Should Not Take LYRICA?

Do not take LYRICA if you are allergic to any of its ingredients. The active ingredient is pregabalin. See the end of this leaflet for a complete list of ingredients in LYRICA.

What should I tell my doctor before taking LYRICA? Tell your doctor about all your medical conditions, including if you:

- have any kidney problems or get kidney dialysis
- have heart problems including heart failure
- have a bleeding problem or a low blood platelet count
- are pregnant or plan to become pregnant. It is not known if LYRICA may harm your unborn baby. You and your doctor will have to decide if LYRICA is right for you while you are pregnant.
- are breastfeeding. It is not known if LYRICA passes into breast milk and if it can harm your baby. You and your doctor should decide whether you should take LYRICA or breastfeed, but not both

Tell your doctor about all the medicines you take including

supplements. LYRICA and other medicines may affect each other. Especially tell your doctor if you take:

- rosiglitazone (Avandia®) or pioglitazone (Actos®) for diabetes.
 You may have a higher chance of weight gain or swelling if
 these medicines are taken with LYRICA. Sec "What are the
 possible side effects of LYRICA."
- any narcotic pain medicine (such as oxycodone), tranquilizers or medicines for anxiety (such as lorazepam). You may have a higher chance for dizziness and sleepiness if these medicines are taken with LYRICA. See "What is the most important information I should know about LYRICA?"
- any medicines that make you sleepy

Know all the medicines you take. Keep a list of them with you to show your doctor and pharmacist each time you get a new medicine.

Tell your doctor if you plan to father a child. Animal studies showed that pregabalin, the active ingredient in LYRICA, made male animals less fertile. Also, in animal studies, birth defects occurred in the offspring of male animals who were treated with pregabalin. It is not known if these effects would happen in people.

How should I take LYRICA?

- Take LYRICA exactly as prescribed. Your doctor may adjust your dose during treatment. Do not change your dose without talking to your doctor.
- talking to your doctor.

 Do not stop taking LYRICA suddenly without talking to your doctor. If you stop taking LYRICA suddenly, you may have headaches, nausea, diarrhea or trouble sleeping. Talk with your
- doctor about how to slowly stop LYRICA.
 LYRICA is usually taken 2 or 3 times a day, depending on your medical condition. Your doctor will tell you how much LYRICA to take and when to take it. Take LYRICA at the same times each day.
- LYRICA may be taken with or without food.

 If you miss a dose by a few hours, take it as soon as you remember. If it is close to your next dose, just take LYRICA at your next regular time. Do not take two doses at the same time.
- If you take too much LYRICA, call your doctor or poison control center or go to the nearest emergency room right away.

What Should I Avoid While Taking LYRICA?

- Do not drive a ear, work with machines, or do other dangerous activities until you know how LYRICA affects how alert you are. See "What is the most important information I should know about LYRICA?"
- Do not drink alcohol while taking LYRICA. LYRICA and alcohol can affect each other and increase side effects such as sleepiness and dizziness. This can be dangerous.
- Do not take other medicines without talking to your doctor. Other medicines include prescription and non-prescription medicines, vitamins, and herbal supplements. LYRICA and other medicines may affect each other and increase the side effects of sleepiness and dizziness. Be especially careful about medicines that make you sleepy (such as sleeping pills, anxiety medicines, tranquillzers and some antibistamines, pain relievers and seizure medicines).

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What are the possible side effects of LYRICA?

LYRICA may cause side effects including:

- dizzlness and sleepiness. See "What is the most important information I should know about LYRICA?"
- eyesight problems. See "What is the most important information I should know about LYRICA?"
- weight gain and swelling of the hands and feet (edema).
 Weight gain may affect the management of diabetes. Weight gain and swelling can also be a serious problem for people with heart oroblems.
- unexplained muscle problems, such as muscle pain, soreness, or weakness. If you develop these symptoms, especially if you also feel sick and have a fever, tell your doctor right away.

The most common side effects of LYRICA are:

- dizziness
- · trouble concentrating
- blurry vision . swelling of hands and feet
- weight gair
 sleepiness
- weight gain . dry mouth

LYRICA caused skin sores in animals. Although skin sores were not seen in studies in people, if you have diabetes, you should pay extra attention to your skin while taking LYRICA and tell your doctor of any sores or skin problems.

LYRICA may eause some people to feel "high." Tell your doetor, if you have abused prescription medicines, street drugs, or alcohol in the past.

Tell your doctor about any side effect that bothers you or that does not go away.

These are not all the side effects of LYRICA. For more information, ask your doctor or pharmacist.

How should I store LYRICA?

- Store LYRICA at room temperature, 59 to 86° F (15 to 30°C) in its original package.
- Safely throw away LYRICA that is out of date or no longer needed
- Keep LYRICA and all medicines out of the reach of children.

General information about LYRICA

Medicines are sometimes prescribed for conditions other than those listed in patient information leaflets. Do not use LYRICA for a condition for which it was not prescribed. Do not give LYRICA to other people, even if they have the same symptoms you have. It may harm them.

This leaflet summarizes the most important information about LYRICA. If you would like more information, talk with your ductur. You can ask your ductur or pharmacist for infurnation about LYRICA that is written for health professionals.
You can also visit the LYRICA website at www.LYRICA.com or call 1-866-41/YRICA.

What are the ingredients in LYRICA?

Active ingredient: pregabalin

Inactive ingredients: Iactose monohydrate, comstarch, tale; Capsalle shell: glatin and ittanium dioxide; Orange capsale shell: red iron coxide; White capsule shell: sodium laury! salfike, colloids alliction dioxide. Colloidstal silicon dioxide is a manufacturing aid that may or may not be present in the capsule shells.

Imprinting ink: shellac, black iron oxide, propylene glycol, potassium hydroxide.



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/s/

Robert Meyer 12/30/04 04:33:10 PM



Public Health Service
Food and Drug Administration
Rockville, MD 20857



NDA 21-723

Pfizer Global Research and Development 2800 Plymouth Road Ann Arbor, Michigan 48105

Attention:

Jonathan M. Parker, RPh, MS

Global Regulatory Leader, Regulatory Affairs

Dear Mr. Parker:

Please refer to your new drug application (NDA) dated October 30, 2003, received October 31, 2003, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for LYRICA™ (pregabalin) Capsules. 25/507/51/00/150/200/225/300 mc.

We acknowledge receipt of your submissions dated November 20, 2003, and January 8, 12, 16, and 30, February 5, 12, 13, 16, 17, 20, 23, 25(3), 26, and 27, March 3, 17, 19, 30, and 31, April 6, 8, 9, 12, 19, 20, 21, 22, and 28, May 3, 4, 13, 17, 18, 19, 25, 26, and 27, June 2, 3, 4, 7, 9, 14, 18, 21, 22, 24, 25, 28, and 29, July 1, 2, 6, 7, 9, 14, 16, 20, 22, 26, and 27, and August 3, 5, 12, 18, 19, 20, 23, 24, and 25, September 3, 7, 8, and 13, October 26, November 1(2) and December 3(02), 2004.

The November 1, 2004, submission constituted a complete response to our August 31, 2004, action letter.

This new drug application provides for the use of LYRICA™ (pregabalin) Capsules for the management of postherpetic neuralgia.

We have completed our review of this application, as amended, and it is approved, effective on the date of this letter, for use as recommended in the agreed-upon labeling text.

The final printed labeling (FPL) must be identical to the submitted labeling (text for the package insert and for the patient package insert submitted December 30, 2004). Immediate container and carton labels must be identical to those submitted July 9, 2004, with the addition of the word "Capsules" to the established name as agreed upon in the November 3, 2004, teleconference. Marketing the product with FPL that is not identical to the approved labeling text may render the product misbranded and an unapproved new drug.

NDA 21-723 Page 2

Please submit an electronic version of the FPL according to the guidance for industry titled Providing Regulatory Submissions in Electronic Format - NDA. Alternatively, you may submit 20 paper copies of the FPL as soon as it is available but no more than 30 days after it is printed. Individually mount 15 of the copies on heavy-weight paper or similar material. For administrative purposes, designate these submissions "FPL for approved NDA 21-73." Approval of this submission by FDA is not required before the labeling is used.

All applications for new active ingredients, new dosage forms, new indications, new routes of administration, and new dosing regimens are required to contain an assessment of the safety and effectiveness of the product in pediatric patients unless this requirement is waived or deferred. We are waiving the pediatric study requirement for this application.

The final scheduling of this product under the Controlled Substances Act is currently proceeding, but not yet complete as of the date of this letter. We note your commitment of December 30, 2004, not to market this drug until the scheduling is finalized. We further note that, when finalized, appropriate revisions should be made to the package insert, the patient-package insert and the product labeling through supplementation of your NDA. This would include the statements detailing the scheduling of Lyrica in the labeling, as required under 21 CFR 201.57 (h)(1).

We remind you of your postmarketing study commitments in your submission to NDA 21-446 dated December 30 2004.

In addition, submit three copies of the introductory promotional materials that you propose to use for this product. Submit all proposed materials in draft or mock-up form, not final print. Send one copy to the Division of Anesthetic, Critical Care and Addiction Drug Products and two copies of both the promotional materials and the package insert directly to:

Division of Drug Marketing, Advertising, and Communications, HFD-42 Food and Drug Administration 5600 Fishers Lane Rockville, MD 20857

Please submit one market package of the drug product when it is available.

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314 80 and 314.81). All 15-day alert reports, periodic (including quarterly) adverse drug experience reports, field a21-446 for this drug product, not to this NDA. In the future, do not make submissions to this NDA except for the final printed labeling requested above.

The MedWatch-to-Manufacturer Program provides manufacturers with copies of serious adverse event reports that are received directly by the FDA. New molecular entities and important new biologics qualify for inclusion for three years after approval. Your firm is eligible to receive copies of reports for this product. To participate in the program, please see the enrollment instructions and program description details at www.fda.gov/medwatch/report/mmp.htm.

NDA 21-723 Page 3

If you have any questions, call Lisa Malandro, Regulatory Project Manager, at (301) 827-7416.

Sincerely,

(See appended electronic signature page)

Robert J. Meyer, M.D Director Office of Drug Evaluation II Center for Drug Evaluation and Research

Enclosures

PROPOSED LABELING TEXT (NEUROPATHIC PAIN – DPN INDICATION-PHN INDICATION)

DRAFT US PACKAGE INSERT

PRODUCT NAME

LYRICA™ (pregabalin) 25, 50, 75, 100, 150, 200, 225, and 300-mg Capsules

Version Date: December 30, 2004

DESCRIPTION

Pregabalin is described chemically as (S)-3-(aminomethyl)-5-methylhexanoic acid. The molecular formula is C₈H₁₇NO₂ and the molecular weight is 159.23. The chemical structure of pregabalin is:

Pregabalin is a white to off-white, crystalline solid with a pK $_{s1}$ of 4.2 and a pK $_{s2}$ of 10.6. It is freely soluble in water and both basic and acidic aqueous solutions. The log of the partition coefficient (n-octanol/0.05M phosphate buffer) at pH 7.4 is -1.35.

LYRICA (pregabalin) Capsules are supplied as imprinted hard-shell capsules containing 25, 50, 75, 100, 150, 200, 225, and 300 mg of pregabalin, along with lactose monohydrate, comstarch, and tale as inactive ingredients. The capsule shells contain gelatin and titanium dioxide. In addition, the orange capsule shells contain red iron oxide and the white capsule shells contain sodium lauryl sulfate and colloidal silicon dioxide. Colloidal silicon dioxide is a manufacturing aid that may or may not be present in the capsule shells. The imprinting ink contains shellac, black iron oxide, propylene glycol, and potassium hydroxide.

CLINICAL PHARMACOLOGY

Mechanism of Action

LYRICA (pregabalin) binds with high affinity to the alpha₂-delta site (an auxiliary subunit of voltage-gated calcium channels) in central nervous system tissues. Although the mechanism of action of pregabalin is unknown, results with genetically modified mice and with compounds structurally related to pregabalin (such as gabapentin) suggest that binding to the alpha₂-delta subunit may be involved in pregabalin's antinociceptive effects in animal models. In vitro, pregabalin reduces the calcium-dependent release of several neurotrasmitters, possibly by modulation of calcium channel function.

While pregabalin is a structural derivative of the inhibitory neurotransmitter gammaaminoburyric acid (GABA), it does not bind directly to GABA, GABAs, or benzodiazepine receptors, does not augment GABA, responses in cultured neurons, does not alter rat brain GABA concentration or have acute effects on GABA uptake or degradation. In vitro, pregabalin, like gabapentin, may affect the GABA transporter protein. Pregabalin does not block sodium channels, is not active at opiate receptors, and does not alter cyclooxygenase enzyme activity. It is inactive at serotonin and dopamine receptors and does not inhibit dopamine, serotonin, or noradrenaline reuptake.

Pharmacokinetics

Pregabalin is well absorbed after oral administration, is eliminated largely by renal excretion, and has an elimination half-life of about 6 hours.

Absorption and Distribution

Following oral administration of pregabalin capsules under fasting conditions, peak plasma concentrations occur within 1.5 hours. Pregabalin oral bioavailability is ≥90% and is independent of dose. Following single- (25 to 300 mg) and multiple- dose (75 to 900 mg/day) administration, maximum plasma concentrations (Cmax) and area under the plasma concentration-time curve (AUC) values increase linearly. Following repeated administration, steady state is achieved within 24 to 48 hours. Multiple-dose pharmacokinetics can be predicted from single-dose data.

The rate of pregabalin absorption is decreased when given with food, resulting in a decrease in Cmax of approximately 25% to 30% and an increase in Tmax to approximately 3 hours. However, administration of pregabalin with food has no clinically relevant effect on the total absorption of pregabalin. Therefore, pregabalin can be taken with or without food.

Pregabalin does not bind to plasma proteins. The apparent volume of distribution of pregabalin following oral administration is approximately 0.5 L/kg. Pregabalin is a substrate for system L transporter which is responsible for the transport of large amino acids across the blood brain barrier. Although there are no data in humans, pregabalin has been shown to cross the blood brain barrier in mice, rats, and monkeys. In addition, pregabalin has been shown to cross the placenta in rats and is present in the milk of lactating rats.

Metabolism and Elimination

Pregabalin undergoes negligible metabolism in humans. Following a dose of radiolabeled pregabalin, approximately 90% of the administered dose was recovered in the urine as unchanged pregabalin. In N-methylated derivative of pregabalin, the major metabolite of pregabalin found in urine, accounted for 0.9% of the dose. In preclinical studies, pregabalin (S-enantiomer) did not undergo racemization to the R-enantiomer in mice, rats, rabbits, or monkeys.

Pregabalin is eliminated from the systemic circulation primarily by renal excretion as unchanged drug with a mean elimination half-life of 6,3 hours in subjects with normal renal function. Mean renal clearance was estimated to be 67.0 to 80.9 mL/min in young healthy subjects. Because pregabalin is not bound to plasma proteins this clearance rate indicates that renal tubular reabsorption is involved. Pregabalin elimination is nearly proportional to creatinine clearance (CLcr) (see Special Populations, Renal Impairment and DOSAGE AND ADMINISTRATION, Patients with Impaired Renal Function).

Special Populations

Race: In population pharmacokinetic analyses of the clinical studies in various populations, the pharmacokinetics of pregabalin were not significantly affected by race (Caucasians, Blacks, and Hispanics).

Gender: Population pharmacokinetic analyses of the clinical studies showed that the relationship between daily dose and pregabalin drug exposure is similar between genders.

Renal Impairment and Hemodialysis: Pregabalin clearance is nearly proportional to creatinine clearance (CLcr). Dosage reduction in patients with renal dysfunction is necessary. Pregabalin is effectively removed from plasma by hemodialysis. Following a 4-hour hemodialysis treatment, plasma pregabalin concentrations are reduced by approximately 50%. For patients on hemodialysis, dosing must be modified (see DOSAGE AND ADMINISTRATION, Patients with Renal Impairment).

Elderly: Pregabalin oral clearance tended to decrease with increasing age. This decrease in pregabalin oral clearance is consistent with age-related decreases in CLcr. Reduction of pregabalin dose may be required in patients who have age-related compromised renal function (see DOSAGE AND ADMINISTRATION, Patients with Renal Impairment).

Pediatric Pharmacokinetics: Pharmacokinetics of pregabalin have not been adequately studied in pediatric patients.

Drug Interactions:

In Vitro Studies: Pregabalin, at concentrations that were, in general, 10-times those attained in clinical trials, does not inhibit human CYPIAZ, CYPZAG, CYPZC9, CYP2C19, CYP2D6, CYP2E1, and CYP3A4 enzyme systems. The potential of pregabalin to induce these enzymes has not been studied in vitro.

In Vivo Studies: The drug interaction studies described in this section were conducted in healthy adults, and across various patient populations.

Gabapentin: The pharmacokinetic interactions of pregabalin and gabapentin were investigated in 12 healthy subjects following concomitant single-dose administration of 100-mg pregabalin and 300-mg gabapentin and in 18 healthy subjects following concomitant multiple-dose administration of 200-mg pregabalin every 8 hours and 400-mg gabapentin every 8 hours. Gabapentin pharmacokinetics following single- and multiple-dose administration were unaltered by pregabalin coadministration. The extent of pregabalin absorption was unaffected by gabapentin coadministration, although there was a small reduction in rate of absorption.

Oral Contraceptive: Pregabalin coadministration (200 mg three times a day) had no effect on the steady-state pharmacokinetics of norethindrone and ethinyl estradiol (1 mg/35 µg, respectively) in healthy subjects.

Lorazepam: Multiple-dose administration of pregabalin (300 mg twice a day) in healthy subjects had no effect on the rate and extent of lorazepam single-dose pharmacokinetics and single-dose administration of lorazepam (1 mg) had no effect on the steady-state pharmacokinetics of pregabalin.

Oxycodone: Multiple-dose administration of pregabalin (300 mg twice a day) in healthy subjects had no effect on the rate and extent of oxycodone single-dose pharmacokinetics. Single-dose administration of oxycodone (10 mg) had no effect on the steady-state pharmacokinetics of pregabalin.

Ethanol: Multiple dose administration of pregabalin (300 mg twice a day) in healthy subjects had no effect on the rate and extent of ethanol single-dose pharmacokinetics and single-dose administration of ethanol (0.7 g/kg) had no effect on the steady-state pharmacokinetics of pregabalin.

Phenytoin, carbamazepine, valproic acid, and lamotrigine: Steady-state trough plasma concentrations of phenytoin, carbamazepine and carbamazepine 10,11 epoxide, valproic acid, and lamotrigine were not affected by concomitant pregabalin (200 mg three times a day) administration.

Population pharmacokinetic analyses in patients treated with pregabalin and various concomitant medications suggest the following:

Therapeutic class	Specific concomitant drug studied
Concomitant drug has no e	ffect on the pharmacokinetics of pregabalin
Hypoglycemics	Glyburide, insulin, metformin,
Diuretics	Furosemide
Antiepileptic Drugs	Tiagabine
Concomitant drug has no e	fect on the pharmacokinetics of pregabalin and
pregabalin has no effect on	the pharmacokinetics of concomitant drug
Antiepileptic Drugs	Carbamazepine, lamotrigine, phenobarbital,
	phenytoin, topiramate, valproic acid

CLINICAL STUDIES

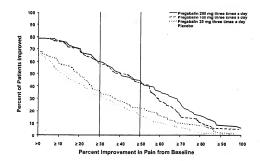
Neuropathic pain associated with diabetic peripheral neuropathy

The efficacy of the maximum recommended dose of LYRICA for the management of neuropathic pain associated with diabetic peripheral neuropathy was established in three double-blind, placebo-controlled, multicenter studies that enrolled 729 patients with three times a day dosing, two of which studied the maximum recommended dose. Studies DPN 1 and DPN 2 enrolled a total of 483 patients of which 89% completed the studies. Patients enrolled had Type 1 or 2 diabetes mellitus with a diagnosis of painful distal symmetrical sensorimotor polyneuropathy for 1 to 5 years. The patients had a minimum mean baseline pain score of 24 on an 11-point numerical pain rating scale ranging from 0 (no pain) to 10 (worst possible pain). The baseline mean pain scores across the two studies ranged from 6.1 to 6.7. Patients were permitted up to 4 grams of acetaminophen per day as needed for pain, in addition to pregabalin. Patients recorded their pain daily in a diary.

Study DPN 1: This 5-week study of 337 patients (240 pregabalin and 97 placebo) compared LYRICA 25, 100, or 200 mg three times a day with placebo. Treatment with LYRICA 100 and 200 mg three times a day statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. There was no evidence of a greater effect on pain scores of the 200 mg three times a day dose than the 100 mg three times a day dose, but

there was evidence of dose dependent adverse effects (see ADVERSE REACTIONS). For various degrees of improvement in pain from baseline to study endpoint, Figure 1 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

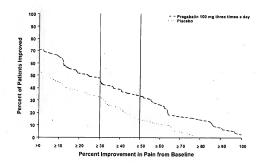
Figure 1: Patients Achieving Various Levels of Pain Relief



Study DPN 2: This 8-week study of 146 patients (76 pregabalin and 70 placebo) compared LYRICA 100 mg three times a day with placebo. Treatment with LYRICA 100 mg three times a day statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. For various degrees of improvement in pain from baseline to study endpoint, Figure 2 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not

complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 2: Patients Achieving Various Levels of Pain Relief

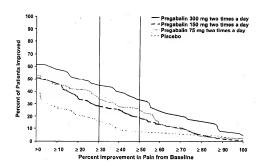


Postherpetic Neuralgia

The efficacy of LYRICA for the management of postherpetic neuralgia was established in three double-blind, placebo-controlled, multicenter studies. These studies enrolled 779 patients, of whom 566 completed the studies. These patients had neuralgia persisting for at least 3 months following healing of herpes zoster rash and a minimum baseline score of ≥4 on an 11-point numerical pain rating scale ranging from 0 (no pain) to 10 (worst possible pain). The baseline mean pain scores across the 3 studies ranged from 6 to 7. Patients were permitted up to 4 grams of acetaminophen per day as needed for pain, in addition to pregabalin. Patients recorded their pain daily in a diary.

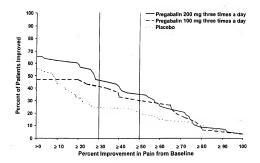
Study PHN 1: This 13-week study of 368 patients (275 pregabalin and 93 placebo) compared LYRICA 75, 150, and 300 mg twice daily with placebo. Patients with creatinine clearance (CLcr) between 30 to 60 mL/min were randomized to 75 mg, 150 mg, or placebo twice daily. Patients with creatinine clearance greater than 60 mL/min were randomized to 75 mg, 150 mg, 300 mg or placebo twice daily. In patients with creatinine clearance greater than 60 mL/min treatment with all doses of LYRICA statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. Despite differences in dosing based on renal function, patients with creatinine clearance between 30 to 60 mL/min tolerated LYRICA less well than patients with creatinine clearance greater than 60 mL/min as evidenced by higher rates of discontinuation due to adverse events. For various degrees of improvement in pain from baseline to study endpoint, Figure 3 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 3: Patients Achieving Various Levels of Pain Relief



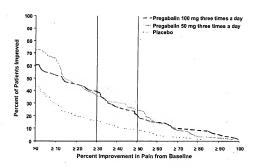
Study PHN 2: This 8-week study of 173 patients (89 pregabalin and 84 placebo) compared LYRICA 100 or 200 mg three times a day with placebo, with doses assigned based on creatinine clearance. Patients with creatinine clearance between 30 to 60 mL/min were treated with 100 mg three times a day, and patients with creatinine clearance greater than 60 mL/min were treated with 200 mg three times daily. Treatment with LYRICA statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. For various degrees of improvement in pain from baseline to study endpoint, Figure 4 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 4: Patients Achieving Various Levels of Pain Relief



Study PHN 3: This 8-week study of 238 patients (157 pregabalin and 81 placebo) compared LYRICA 50 or 100 mg three times a day with placebo with doses assigned regardless of creatinine clearance. Treatment with LYRICA 50 and 100 mg three times a day statistically significantly improved the endpoint mean pain score and increased the proportion of patients with at least a 50% reduction in pain score from baseline. Patients with creatinine clearance between 30 to 60 mL/min tolerated LYRICA less well than patients with creatinine clearance greater than 60 mL/min as evidenced by markedly higher rates of discontinuation due to adverse events. For various degrees of improvement in pain from baseline to study endpoint, Figure 5 shows the fraction of patients achieving that degree of improvement. The figure is cumulative, so that patients whose change from baseline is, for example, 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted throughout the study.

Figure 5: Patients Achieving Various Levels of Pain Relief



INDICATIONS AND USAGE

LYRICA is indicated for management of

- · Neuropathic pain associated with diabetic peripheral neuropathy
- · Postherpetic neuralgia

CONTRAINDICATIONS

LYRICA is contraindicated in patients with known hypersensitivity to pregabalin or any of its components.

WARNINGS

Tumorigenic Potential

In standard preclinical in vivo lifetime carcinogenicity studies of pregabalin, an unexpectedly high incidence of hemangiosarcoma was identified in two different strains of mice. (See PRECAUTIONS: Carcinogenesis, Mutagenesis, Impairment of Fertility). The clinical significance of this finding is unknown. Clinical experience during pregabalin's premarketing development provides no direct means to assess its potential for inducing tumors in humans.

In clinical studies across various patient populations, comprising 6396 patient-years of exposure in patients >12 years of age, new or worsening-preexisting tumors were reported in 57 patients. Without knowledge of the background incidence and recurrence in similar populations not treated with LYRICA, it is impossible to know whether the incidence seen in these cohorts is or is not affected by treatment.

PRECAUTIONS

Dizziness and Somnolence

Pregabalin causes dizziness and somnolence. Patients should be informed that pregabalin-related dizziness and somnolence may impair their ability to perform tasks such as driving or operating machinery (See PRECAUTIONS-Information for Patients).

In the pregabalin controlled trials, dizziness was experienced by 29% of pregabalintreated patients compared to 9% of placebo-treated patients; somnolence was experienced
by 22% of pregabalin-treated patients compared to 8% of placebo-treated patients.

Dizziness and somnolence generally beganshortly after the initiation of pregabalin
therapy and occurred more frequently at higher doses. Dizziness and somnolence were
the adverse events most frequently leading to withdrawal (4% each) from controlled
studies. In pregabalin-treated patients reporting these adverse events in short-term,
controlled studies, dizziness persisted until the last dose in 31% and somnolence persisted
until the last dose in 46% of patients.

Ophthalmological Effects

In controlled studies, a higher proportion of patients treated with pregabalin reported blurred vision (6%) than did patients treated with placebo (2%), which resolved in a majority of cases with continued dosing. Less than 1% of patients discontinued pregabalin treatment due to vision-related events (primarily blurred vision).

Prospectively planned ophthalmologic testing, including visual acuity testing, formal visual field testing and dilated funduscopic examination, was performed in over 3600 patients. In these patients, visual acuity was reduced in 7% of patients treated with pregabalin, and 5% of placebo-treated patients. Visual field changes were detected in 13% of pregabalin-treated, and 12% of placebo-treated patients. Funduscopic changes were observed in 2% of pregabalin-treated and 2% of placebo-treated patients.

Although the clinical significance of the ophthalmologic findings is unknown, patients should be informed that if changes in vision occur, they should notify their physician. If visual disturbance persists, further assessment should be considered. More frequent

assessment should be considered for patients who are already routinely monitored for ocular conditions (See PRECAUTIONS-Information for Patients).

Abrupt or Rapid Discontinuation

Following abrupt or rapid discontinuation of pregabalin, some patients reported symptoms including insomnia, nausea, headache, and diarrhea. Pregabalin should be tapered gradually over a minimum of 1 week rather than discontinued abruptly.

Weight Gain

Pregabalin treatment caused weight gain. In pregabalin controlled clinical trials of up to 13 weeks, a gain of 7% or more over baseline weight was observed in 8% of pregabalintreated patients and 2% of placebo-treated patients. Few patients treated with pregabalin (0.2%) withdrew from controlled trials due to weight gain. Pregabalin associated weight gain was related to dose and duration of exposure, but did not appear to be associated with baseline BMI, gender, or age. Weight gain was not limited to patients with edema (See Precautions-Peripheral Edema).

Although weight gain was not associated with clinically important changes in blood pressure in short-term controlled studies, the long-term cardiovascular effects of pregabalin-associated weight gain are unknown.

Among diabetic patients, pregabalin-treated patients gained an average of 1.6 kg (range: -16 to 16 kg), compared to an average 0.3 kg (range: -10 to 9 kg) weight gain in placebo patients. In a cohort of 333 diabetic patients who received pregabalin for at least 2 years, the average weight gain was 5.2 kg.

While the effects of pregabalin-associated weight gain on glycemic control have not been systematically assessed, in controlled and longer-term open label clinical trials with diabetic patients, pregabalin treatment did not appear to be associated with loss of glycemic control (as measured by JBA_{IC}).

Peripheral Edema

Pregabalin treatment caused edema, primarily described as peripheral edema. In shortterm trials of patients without clinically significant heart or peripheral vascular disease, there was no apparent association between peripheral edema and cardiovascular complications such as hypertension or congestive heart failure. Peripheral edema was not associated with laboratory changes suggestive of deterioration in renal or hepatic function

In controlled clinical trials the incidence of peripheral edema was 6% in the pregabalin group compared with 2% in the placebo group. In controlled clinical trials, 0.6% of pregabalin patients and no placebo patients withdrew due to peripheral edema.

Higher frequencies of weight gain and peripheral edema were observed in patients taking both LYRICA and a thiazolidinedione antidiabetic agent compared to patients taking either drug alone. The majority of patients using thiazolidinedione antidiabetic agents in the overall safety database were participants in studies of pain associated with diabetic peripheral neuropathy. In this population, peripheral edema was reported in 3% (2/60) of patients who were using thiazolidinedione antidiabetic agents only, 8% (69/859) of patients who were treated with pregabalin only, and 19% (23/120) of patients who were on both pregabalin and thiazolidinedione antidiabetic agents. Similarly, weight gain was reported in 0% (0/60) of patients on thiazolidinediones only; 4% (35/859) of patients on pregabalin only; and 7.5% (9/120) of patients on both drugs.

As the thiazolidinedione class of antidiabetic drugs can cause weight gain and/or fluid retention, possibly exacerbating or leading to heart failure, care should be taken when co-administering LYRICA and these agents.

Because there are limited data on congestive heart failure patients with New York Heart Association (NYHA) Class III or IV cardiac status, LYRICA should be used with caution in these patients.

Creatine Kinase Elevations

Pregabalin treatment was associated with creatine kinase elevations. Mean changes in creatine kinase from baseline to the maximum value were 60 U/L for pregabalin- reteated patients and 28 U/L for the placebo patients. In all controlled trials across multiple patient populations, 2% of patients on pregabalin and 1% of placebo patients had a value

of creatine kinase at least three times the upper limit of normal. Three pregabalin treated subjects had events reported as rhabdomyolysis in premarketing clinical trials. The relationship between these myopathy events and pregabalin is not completely understood hecause the cases had documented factors that may have caused or contributed to these events. Prescribers should instruct patients to promptly report unexplained muscle pain, tendemess, or weakness, particularly if these muscle symptoms are accompanied by malaise or fever. Pregabalin treatment should be discontinued if myopathy is diagnosed or suspected or if markedly elevated creatine kinase levels occur.

Laboratory Changes

Decreased Platelet Count

Prezabalin treatment was associated with a decrease in platelet count. Pregabalin-treated subjects experienced a mean maximal decrease in platelet count of $20 \times 10^{10} \mu L$, compared to $11 \times 10^{3} \mu L$ in placebo patients. In the overall database of controlled trials, 2% of placebo patients and 3% of pregabalin patients experienced a potentially clinically significant decrease in platelets, defined as 20% below baseline value and $< 150 \times 10^{3} \mu L$. In randomized controlled trials, pregabalin was not associated with an increase in bleeding related adverse events.

ECG Changes

PR Interval Prolongation

Pregabalin treatment was associated with mild PR interval prolongation. In analyses of clinical trial ECG data, the mean PR interval increase was 3-6 msec at pregabalin doses = 300 mg/day. This mean change difference was not associated with an increased risk of PR increase = 25% from baseline, an increased percentage of subjects with on-treatment PR > 200 msec, or an increased risk of adverse events of second or third degree AV block.

Information for Patients

Patients should be counseled that LYRICA may cause dizziness, somnolence, blurred vision and other CNS signs and symptoms. Accordingly, they should be advised not to drive, operate complex machinery, or engage in other hazardous activities until they have

gained sufficient experience on pregabalin to gauge whether or not it affects their mental, visual, and/or motor performance adversely.

Patients should be counseled that LYRICA may cause visual disturbances. Patients should be informed that if changes in vision occur, they should notify their physician (See PRECAUTIONS).

Patients should be advised to take LYRICA as prescribed. Abrupt or rapid discontinuation may result in insomnia, nausea, headache, or diarrhea.

Patients should be counseled that LYRICA may cause edema and weight gain.

Patients should be advised that concomitant treatment with LYRICA and a thiazolidinedione antidiabetic agent may lead to an additive effect on edema and weight gain. For patients with preexisting cardiac conditions, this may increase the risk of heart failure.

Patients should be instructed to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever.

Patients who require concomitant treatment with central nervous system depressants such as opiates or benzodiazepines should be informed that they may experience additive CNS side effects, such as somnolence.

Patients should be told to avoid consuming alcohol while taking LYRICA, as LYRICA may potentiate the impairment of motor skills and sedation of alcohol.

Patients should be instructed to notify their physician if they become pregnant or intend to become pregnant during therapy, and to notify their physician if they are breast feeding or intend to breast feed during therapy.

Men being treated with LYRICA who plan to father a child should be informed of the potential risk of male-mediated teratogenicity. In preclinical studies in rats, pregabalin was associated with an increased risk of male-mediated teratogenicity. The clinical significance of this finding is uncertain (see PRECAUTIONS - Carcinogenesis and Impairment of Fertility).

Diabetic patients should be instructed to pay particular attention to skin integrity while being treated with LYRICA. Some animals treated with pregabalin developed skin ulcerations, although no increased incidence of skin lesions associated with LYRICA was observed in clinical trials (see Animal Toxicology).

Patients should be informed of the availability of a patient information leaflet, and they should be instructed to read the leaflet prior to taking LYRICA.

Drug Interactions

Since pregabalin is predominantly excreted unchanged in the urine, undergoes negligible metabolism in humans (<2% of a dose recovered in urine as metabolites), and does not bind to plasma proteins, its pharmacokinetics are unlikely to be affected by other agents through metabolic interactions or protein binding displacement. In vitro and in vivo studies showed that LYRICA is unlikely to be involved in significant pharmacokinetic drug interactions. Specifically, there are no pharmacokinetic interactions between pregabalin and the following antiepileptic drugs: carbamazepine, valproic acid, lamotrigine, phenytoin, phenobarbital, and topiramate. Important pharmacokinetic interactions would also not be expected to occur between pregabalin and commonly used antiepileptic drugs (See CLINICAL PHARMACOLOGY).

Pharmacodynamics

Multiple oral doses of pregabalin were co-administered with oxycodone, lorazepam, or ethanol. Although no pharmacokinetic interactions were seen, additive effects on cognitive and gross motor functioning were seen when pregabalin was co-administered with those drugs. No clinically important effects on respiration were seen (See PRECAUTIONS, Dizziness and Somnolence and Information for Patients).

Animal Toxicology

Dermatopathy

Skin lesions ranging from erythema to necrosis were seen in repeated-dose toxicology studies in both rats and monkeys. The etiology of these skin lesions is unknown. At the maximum recommended human dose (MRD) of 600 mg/day, there is a 2-fold safety

margin for the dermatological lesions. The more severe dermatopathies involving necrosis were associated with pregabalin exposures (as expressed by plasma AUCs) of approximately 3 to 8 times those achieved in humans given the MRD. No increase in incidence of skin lesions was observed in clinical studies.

Ocular lesions

Ocular lesions (characterized by retinal arrophy [including loss of photoreceptor cells] and/or comeal inflammation/mineralization) were observed in two lifetime carcinogenicity studies in Wistar rats. These findings were observed at plasma pregabalin exposures (AUC) =2 times those achieved in humans given the maximum recommended dose of 600 mg/day. A no-effect dose for ocular lesions was not established. Similar lesions were not observed in lifetime carcinogenicity studies in two strains of mice or in monkeys treated for 1 year. The clinical significance of this finding in rats is unknown.

Effects in Juvenile Animals

In studies in which pregabalin (50 to 500 mg/kg) was orally administered to young rats from early in the postnatal period (Postnatal Day 7) through sexual maturity, neurobehavioral abnormalities (deficits in learning and memory, altered locomotor activity, decreased auditory startle responding and habituation) and reproductive impairment (delayed sexual maturation and decreased fertility in males and females), were observed at doses = 50 mg/kg. The neurobehavioral changes (except for locomotor activity) persisted in animals tested after cessation of dosing and, thus, were considered to represent long-term effects. The low effect dose for developmental neurotoxicity and reproductive impairment in juvenile rats (50 mg/kg) was associated with a plasma pregabalin exposure (AUC) approximately equal to human exposure at the maximum recommended dose of 600 mg/day. A no-effect dose was not established.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

A dose-dependent increase in the incidence of malignant vascular tumors (hemangiosarcomas) was observed in two strains of mice (B6C3F1 and CD-1) given pregabalin (200, 1000, or 5000 mg/kg) in the diet for two years. Plasma pregabalin

exposure (AUC) in mice receiving the lowest dose that increased hemangiosarcomas was approximately equal to the human exposure at the maximum recommended dose (MRD) of 600 mg/day. A no-effect dose for induction of hemangiosarcomas in mice was not established. No evidence of carcinogenicity was seen in two studies in Wistar rats following dietary administration of pregabalin for two years at doses (50, 150, or 450 mg/kg in males and 100, 300, or 900 mg/kg in females) that were associated with plasma exposures in males and females up to approximately 14 and 24 times, respectively, human exposure at the MRD. The clinical significance of this finding in mice is unknown.

Mutagenesis

Pregabalin was not mutagenic in bacteria or in mammalian cells in vitro, was not clastogenic in mammalian systems in vitro and in vivo, and did not induce unscheduled DNA synthesis in mouse or rat hepatocytes.

Impairment of Fertility

In fertility studies in which male rats were orally administered pregabalin (50 to 2500 mg/kg) prior to and during mating with untreated females, a number of adverse reproductive and developmental effects were observed. These included decreased sperm counts and sperm motility, increased sperm abnormalities, reduced fertility, increased preimplantation embryo loss, decreased litter size, decreased fetal body weights, and an increased incidence of fetal abnormalities. Effects on sperm and fertility parameters were reversible in studies of this duration (3-4 months). The no-effect dose for male reproductive toxicity in these studies (100 mg/kg) was associated with a plasma pregabalin exposure (AUC) approximately 3 times human exposure at the maximum recommended dose (MRD) of 600 mg/day.

In addition, adverse effects on reproductive organ (testes, epididymides) histopathology were observed in male rats exposed to pregabalin (500 to 1250 mg/kg) in general toxicology studies of four weeks or greater duration. The no-effect dose for male reproductive organ histopathology in rats (250 mg/kg) was associated with a plasma exposure approximately 8 times human exposure at the MRD.

In a fertility study in which female rats were given pregabalin (500, 1250, or 2500 mg/kg) orally prior to and during mating and early gestation, disrupted estrous cyclicity and an increased number of days to mating were seen at all doses, and embryolethality occurred at the highest dose. The low dose in this study procluced a plasma exposure approximately 9 times that in humans receiving the MRD. A no-effect dose for female reproductive toxicity in rats was not established. The clinical significance of female refritlity findings in animals is unknown.

Human Data

In a double-blind, placebo-controlled clinical trial to assess the effect of pregabalin on sperm motility, 30 healthy male subjects were exposed to pregabalin at a dose of 600 mg/day. After 3 months of treatment (one complete sperm cycle), the difference between placebo- and pregabalin-treated subjects in mean percent sperm with normal motility was <4% and neither group had a mean change from baseline of more than 2%. Effects on other male reproductive parameters in humans have not been adequately studied.

Pregnancy

Pregnancy Category C

Increased incidences of fetal structural abnormalities and other manifestations of developmental toxicity, including lethality, growth retardation, and nervous and reproductive system functional impairment, were observed in the offspring of rats and rabbits given pregabalin during pregnancy, at doses that produced plasma pregabalin exposures (AUC) \geq 5 times human exposure at the maximum recommended dose (MRD) of 600 me/dav.

When pregnant rats were given pregabalin (500, 1250, or 2500 mg/kg) orally throughout the period of organogenesis, incidences of specific skull alterations attributed to abnormally advanced ossification (premature fusion of the jugal and nasal sutures) were increased at =1250 mg/kg, and increased at elected variations and retarded ossification were increased at all doses. Fetal body weights were decreased at the highest dose. The low dose in this study was associated with a plasma exposure (AUC) approximately 17

times human exposure at the MRD of 600 mg/day. A no-effect dose for rat embryo-fetal developmental toxicity was not established.

When pregnant rabbits were given pregabalin (250, 500, or 1250 mg/kg) orally throughout the period of organogenesis, decreased fetal body weight and increased incidences of skeletal malformations, visceral variations, and retarded ossification were observed at the highest dose. The no-effect dose for developmental toxicity in rabbits (500 mg/kg) was associated with a plasma exposure approximately 16 times human exposure at the MRD.

In a study in which female rats were dosed with pregabalin (50, 100, 250, 1250, or 2500 mg/kg) throughout gestation and lactation, offspring growth was reduced at = 100 mg/kg and offspring survival was decreased at = 250 mg/kg. The effect on offspring survival was pronounced at doses = 1250 mg/kg, with 100% nortality in high-dose litters. When offspring were tested as adults, neurobehavioral abnormalities (decreased auditory startle responding) were observed at =250 mg/kg and reproductive impairment (decreased fertility and litter size) was seen at 1250 mg/kg. The no-effect dose for pre- and postnatal developmental toxicity in rats (50 mg/kg) produced a plasma exposure approximately 2 times human exposure at the MRD.

There are no adequate and well-controlled studies in pregnant women. LYRICA should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Labor and Delivery: The effects of pregabalin on labor and delivery in pregnant women are unknown. In the prenatal-postnatal study in rats, pregabalin prolonged gestation and induced dystocia at exposures >50 times the mean human exposure (AUC₍₀₋₂₀₎ of 123 µg.hr/mL) at the maximum recommended clinical dose of 600 mg/day.

Use in Nursing Mothers: It is not known if pregabalin is excreted in human milk; it is, however, present in the milk of tass. Because many drugs are excreted in human milk, and because of the potential for tumorigenicity shown for pregabalin in animal studies, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use

The safety and efficacy of pregabalin in pediatric patients have not been established.

Geriatric Use

In controlled clinical studies of LYRICA in neuropathic pain associated with diabetic peripheral neuropathy, 306 patients were 65 to 74 years of age, and 88 patients were 75 years of age or older.

In controlled clinical studies of LYRICA in neuropathic pain associated with postherpetic neuralgia, 282 patients were 65 to 74 years of age, and 379 patients were 75 years of age or older

No overall differences in safety and efficacy were observed between these patients and younger patients. Even though the incidence of adverse events did not increase with age, greater sensitivity of some older individuals cannot be ruled out. LYRICA is known to be substantially excreted by the kidney, and the risk of toxic reactions to LYRICA may be greater in patients with impaired renal function.

Because LYRICA is eliminated primarily by renal excretion, the dose should be adjusted for elderly patients with renal impairment, as noted in the DOSAGE AND ADMINISTRATION section

ADVERSE REACTIONS

In all controlled and uncontrolled trials across various patient populations during the premarketing development of pregabalin, more than 9000 patients have received pregabalin. Approximately 4300 patients were treated for 6 months or more, over 2700 patients were treated for 1 year or longer, and over 1000 patients were treated for at least 2 years.

Adverse Events Most Commonly Leading to Discontinuation in All Controlled Clinical Studies

In controlled trials of all populations combined. 14% of patients treated with pregabalin and 7% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the adverse events most frequently leading to discontinuation were dizziness (4%) and somnolence (3%). In the placebo group, 1% of patients withdrew due to dizziness and <1% withdrew due to somnolence. Other adverse events that led to discontinuation from controlled trials more frequently in the pregabalin group compared to the placebo group were ataxia, confusion, asthenia, thinking abnormal, blurred vision, incoordination, and peripheral edema (1% each)

Most Common Adverse Events in All Controlled Clinical Studies

In controlled trials of all patient populations combined, dizziness, somnolence, dry mouth, edema, blurred vision, weight gain, and "thinking abnormal" (primarily difficulty with concentration/attention) were more commonly reported by subjects treated with pregabalin than by subjects treated with placebo (≥5% and twice the rate of that seen in placebo).

Controlled Studies with Neuropathic Pain Associated with Diabetic Peripheral Neuropathy

Adverse Events Leading to Discontinuation

In clinical trials in patients with neuropathic pain associated with diabetic peripheral neuropathy, 9% of patients treated with pregabalin and 4% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the most common reasons for discontinuation due to adverse events were dizziness (3 %) and somnolence (2 %). In comparison, 41% of placebo patients withdrew due to dizziness and somnolence. Other reasons for discontinuation from the trials, occurring with greater frequency in the pregabalin group than in the placebo group, were asthenia, confusion, and peripheral edema. Each of these events led to withdrawal in approximately 1% of patients.

Most Common Adverse Events

Table 1 lists all adverse events, regardless of causality, occurring in = 1% of patients with neuropathic pain associated with diabetic neuropathy in the combined pregabalin group for which the incidence was greater in this combined pregabalin group than in the placebo group. A majority of pregabalin-treated patients in clinical studies had adverse events with a maximum intensity of "mild" or "moderate".

Table 1. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Diabetic Peripheral Neuropathy (Events in at least 1% of all LYRICA-treated patients and at least numerically more in all pregabalin than in the placebo group)

Body system - Preferred term	75 mg/day [N=77] %	150 mg/day [N=212] %	300 mg/day [N=321] %	600 mg/day [N=369] %	All PGB* [N=979] %	Placebo [N=459] %
Body as a whole						
Asthenia	4	2	4	7	5	2
Accidental injury	5	2	2	6	4	3
Back pain	0	2	1	2	2	0
Chest pain	4	1	1	2	2	1
Face edema	0	1	1	2	1	0
Digestive system						
Dry mouth	3	2	5	7	5	1
Constipation	0	2	4	6	4	2
Flatulence	3	0	2	3	2	1 -
Metabolic and nutrition	onal disorders					
Peripheral edema	4	6	9	12	9	2
Weight gain	0	4	4	6	4	0
Edema	0	2	4	2	2	0
Hypoglycemia	1	3	2	1	2	1
Nervous system						
Dizziness	8	9	23	29	21	5
Somnolence	- 4	6	13	16	12	3
Neuropathy	9	2	2	5	4	3
Ataxia	6	i	2	4	3	i
Vertigo	i	2	2	4	3	i
Confusion	0	1	2	3	2	i
Euphoria	0	0	3	2	2	ò
Incoordination	1	0	2	2	2	ō
Thinking abnormaf	i	0	1	3	2	0
Fremor	i	ĭ	i	2	ĩ	ő
Abnormal gait	i	ò	i	3	i	ŏ
Amnesia	3	1	ó	2	i	ō
Vervousness	ñ	i	1	ī	i	n
Respiratory system						
Dyspnea	3	0	2	2	2	1
			-	-	-	

Table 1. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Diabetic Peripheral Neuropathy (Events in at least 1% of all LYRICA-treated patients and at least

3	I	3	6	4	2
1	0	I	1	1	0
	3 I			1 0 1 1	

Thinking abnormal primarily consists of events related to difficulty with concentration/attention but also includes vents related to cognition and language problems and slowed thinking. Investigator term; summary level term is amblyopia

Controlled Studies in Postherpetic Neuralgia

Adverse Events Leading to Discontinuation

In clinical trials in patients with postherpetic neuralgia, 14% of patients treated with pregabalin and 7% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the most common reasons for discontinuation due to adverse events were disziness (4%) and somnolence (3%). In comparison, less than 1% of placebo patients withdrew due to dizziness and somnolence. Other reasons for discontinuation from the trials, occurring in greater frequency in the pregabalin group than in the placebo group, were confusion (2%), as well as peripheral edema, asthenia, ataxia, and abnormal eait (1% each).

Most Common Adverse Events

Table 2 lists all adverse events, regardless of causality, occurring in = 1% of patients with neuropathic pain associated with postherpetic neuralgia in the combined pregabalin group for which the incidence was greater in this combined pregabalin group than in the placebo group. In addition, an event is included, even if the incidence in the all pregabalin group is not greater than in the placebo group, if the incidence of the event in the 600 mg/day group is more than twice that in the placebo group. A majority of

pregabalin-treated patients in clinical studies had adverse events with a maximum intensity of "mild" or "moderate".

Table 2. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Postherpetic Neuralgia (Events in at least 1% of all LYRICA-treated patients and at least numerically more in all pregabalin than in the placebo group)

Body system - Preferred term	75 mg/d	150 mg/d	300 mg/d	600 mg/d	All PGB*	Placebo
	[N=84]	IN=3021	[N=312]	IN=1541	IN=8521	[N=3981
	%	%	%	%	%	%
Body as a whole						
Infection	14	8	6	3	7 .	4
Headache	5	9	5	8	7	5
Pain	5	4	5	5	5	4
Accidental Injury	4	3	3	5	3	2
Flu syndrome	1	2	2	1	2	1
Face edema	0	2	1	3	2	1
Digestive system						
Dry mouth	7	7	6 .	15	8	3
Constipation	4	5	5	5	5	2
Flatulence	2	1	2	3	2	1
Vomiting	1	1	3	3	2	1
Metabolic and nutritie	onal disorders					
Peripheral edema	0	8	16	16	12	4
Weight gain	1	2	5	7	4	Ó
Edema	0	1	2	6	2	1
Musculoskeletal syster	m					
Myasthenia	1	1	1	1	1	0
Nervous system						
Dizziness	11	18	31	37	26	9
Somnolence	8	12	18	25	16	5
Ataxia	i	2	5	9	5	1
Abnormal gait	ó	2	4	8	4	i
Confusion	ĭ	2	3	7	3	ò
Thinking abnormat	ó	2	1	6	2	2
ncoordination	2	2	i	3	2	ō
Amnesia	ō	ī	∞ i	4	2	ő
Speech disorder	ō	ò	i	3	ī	ŏ
Respiratory system						
Bronchitis	0	1	1	3	1	1

Table 2. Treatment-emergent adverse event incidence in controlled trials in Neuropathic Pain Associated with Postherpetic Neuralgia (Events in at least 1% of all LYRICA-treated patients and at least numerically

more in a	more in all pregabalin than in the placebo group)					
Body system - Preferred term	75 mg/d [N=84] %	150 mg/d [N=302] %	300 mg/d [N=312] %	600 mg/d [N=154] %	All PGB* [N=852] %	Placebo [N=398] %
Special senses						
Blurry vision ^b	1	5	- 5	9	5	3
Diplopia	0	2	2	4	2	0
Abnormal vision	0	1	2	5	2	0
Eye Disorder	0	1	1	2	1	0
Urogenital System						
Urinary Incontinence	0	1.	1	2	1	0

^{*}PGB: pregabalis

Other Adverse Events Observed During the Clinical Studies of LYRICA (pregabalin)

Following is a list of treatment-emergent adverse events reported by patients treated with LYRICA during all clinical trials. The listing does not include those events already listed in the previous tables or elsewhere in labeling, those events for which a drug cause was remote, those events which were so general as to be uninformative, and those events reported only once which did not have a substantial probability of being acutely life-threatening.

Events are categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients; infrequent adverse events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients. Events of major clinical importance are described in the WARNINGS and PRECAUTIONS sections.

Thinking abnormal primarily consists of events related to difficulty with concentration/attention but also includes events related to cognition and language problems and slowed thinking. Investigator term; summary level term is amblyopia

Body as a Whole - Frequent: Abdominal pain, Allergic reaction, Fever, Infrequent: Abscess, Cellulitis, Chills, Malsies, Neck rigidity, Overdose, Pelvic pain, Photosensitivity reaction, Suicide attempt, Rare: Anaphylactoid reaction, Ascites, Hangover effect, Shock, Suicide

Cardiovascular System-Infrequent: Deep thrombophlebitis, Heart failure, Hypotension, Postural hypotension, Retinal vascular disorder, Syncope

Digestive System — Frequent: Gastroenteritis, Increased appetite; Infrequent: Cholceystitis, Cholelithiasis, Colitis, Dysphagia, Esophagitis, Gastritis, Gastrointestinal hemorrhage, Melena, Mouth ulceration, Pancreatitis, Rectal hemorrhage, Tongue edema; Rare: Aphthous stomatitis

Hemic and Lymphatic System – Frequent: Ecchymosis; Infrequent: Anemia, Eosinophilia, Hypochromic anemia, Leukocytosis, Leukopenia, Lymphadenopathy, Thrombocytopenia; Rare: Polycythemia, Prothrombin decreased, Purpura, Thrombocythemia

Musculoskeletal System – Frequent: Arthralgia, Leg cramps, Myalgia, Myasthenia; Infrequent: Arthrosis

Nervous System – Frequent: Anxiety, Depersonalization, Hypertonia, Hypesthesia, Libido decreased, Nystagmus, Paresthesia, Stupor, Twitching; Infrequent: Abnormal dreams, Agitation, Apathy, Aphasia, Circumoral paresthesia, Dysathria, Hallucinations, Hostility, Hyperalgesia, Hypersthesia, Hyperkinesia, Hypotonia, Libido increased, Myoclonus, Neuralgia, Rare: Addiction, Cerebellar syndrome, Cogwheel rigidity, Coma. Delirium, Dyskinesia, Dystonia, Encephalopathy, Extrapyramidal syndrome, Guillain barre syndrome, Hypalgesia, Intracranial hypertension, Manic reaction, Paranoid reaction, Peripheral neuritis, Psychotic depression, Schizophrenic reaction, Torticollis. Trismus

Respiratory System -Rare: Apnea, Atelectasis, Bronchiolitis, Hiccup, Laryngismus, Lung edema, Lung fibrosis, Yawn

Skin and Appendages – Frequent: Pruritus, Infrequent: Alopecia, Dry skin, Eczema, Hirsutism, Skin ulcer, Urticaria, Vesiculobullous rash; Rare: Angioedema, Exfoliative dermatitis, Lichenoid dermatitis, Melanosis, Petechial rash, Purpuric rash, Pustular rash, Skin atrophy, Skin necrosis, Skin nodule, Stevens-Johnson syndrome, Subcutaneous nodule

Special senses—Frequent: Conjunctivitis, Diplopia, Otitis media, Tinnitus; Infrequent: Abnormality of accommodation, Blepharitis, Dry eyes, Eye hemorrhage, Hyperacusis, Photophobia, Retinal edema, Taste loss, Taste perversion; Agree: Anisocoria, Blindness, Corneal ulcer, Exophthalmos, Extraocular palsy, Iritis, Keratitis, Keratoconjunctivitis, Miosis, Mydriasis, Night blindness, Ophthalmoplegia, Optic atrophy, Papilledema, Parosmia, Protsis

Urogenital System – Frequent: Anorgasmia, Impotence, Urinary frequency, Urinary incontinence, Infrequent: Abnormal ejaculation, Albuminuria, Amenorrhea, Dysuria, Ilematuria, Kidney calculus, Leukorrhea, Menorrhagia, Metrorrhagia, Nephritis, Oliguria, Urinary retention, Rare: Acute kidney failure, Balanitis, Cervicitis, Dyspareunia, Epididymitis, Female lactation, Glomerulitis

Comparison of Gender and Race

The overall adverse event profile of pregabalin was similar between women and men. There are insufficient data to support a statement regarding the distribution of adverse experience reports by race.

DRUG ABUSE AND DEPENDENCE

In a study of recreational users (N=15) of sedative/hypnotic drugs, including alcohol, Lyrica (450mg, single dose) received subjective ratings of "good drug effect," "high" and

"liking" to a degree that was similar to diazepam (30mg, single dose). In controlled clinical studies in over 5500 patients, 4 % of Lyrica-treated patients and 1 % of placebotreated patients overall reported euphoria as an adverse event, though in some patient populations studied, this reporting rate was higher and ranged from 1 to 12%. In clinical studies, following abrupt or rapid discontinuation of pregabalin, some patients reported symptoms including insomnia, nausea, headache or diarrhea (See PRECAUTIONS, Abrupt Discontinuation), suggestive of physical dependence.

Pregabalin is not known to be active at receptor sites associated with drugs of abuse. As with any CNS active drug, physicians should carefully evaluate patients for history of drug abuse and observe them for signs of LYRICA misuse or abuse (e.g., development of tolerance, dose escalation, drug-seeking behavior).

OVERDOSAGE

Signs, Symptoms and Laboratory Findings of Acute Overdosage in Humans

There is limited experience with overdose of pregabalin. The highest reported accidental overdose of pregabalin during the clinical development program was 8000 mg, and there were no notable clinical consequences. In clinical studies, some patients took as much as 2400 mg/day. The types of adverse events experienced by patients exposed to higher doses (= 900 mg) were not clinically different from those of patients administered recommended doses of pregabalin.

Treatment or Management of Overdose

There is no specific antidote for overdose with pregabalin. If indicated, elimination of unabsorbed drug may be attempted by emesis or gastric lavage; usual precautions should be observed to maintain the airway. General supportive care of the patient is indicated including monitoring of vitalsigns and observation of the clinical status of the patient. A Certified Poison Control Center should be contacted for up-to-date information on the management of overdose with pregabalin.

Although hemodialysis has not been performed in the few known cases of overdose, it may be indicated by the patient's clinical state or in patients with significant renal impairment. Standard hemodialysis procedures result in significant clearance of pregabalin (approximately 50% in 4 hours).

DOSAGE AND ADMINISTRATION

LYRICA™ is given orally with or without food.

Neuropathic pain associated with diabetic peripheral neuropathy

The maximum recommended dose of LYRICA is 100 mg three times a day (300 mg/day) in patients with creatinine clearance of at least 60 ml/min. Dosing should begin at 50 mg three times a day (150mg/day) and may be increased to 300 mg/day within 1 week based on efficacy and tolerability. Because LYRICA is eliminated primarily by renal excretion, the dose should be adjusted for patients with reduced renal function (see Patients with Renal Impairment).

Although LYRICA was also studied at 600 mg/day, there is no evidence that this dose confers additional significant benefit and this dose was less well tolerated. In view of the dose-dependent adverse effects, treatment with doses above 300 mg/day are not recommended (see ADVERSE REACTIONS).

When discontinuing LYRICA, taper gradually over a minimum of 1 week.

Postherpetic neuralgia

The recommended dose of LYRICA is 75 to 150 mg two times a day, or 50 to 100 mg three times a day (150 to 300 mg/day) in patients with creatinine clearance of at least 60 mL/min. Dosing should begin at 75 mg two times a day, or 50 mg three times a day (150 mg/day) and may be increased to 300 mg/day within 1 week based on efficacy and tolerability. Because LYRICA is eliminated primarily by renal excretion, the dose should be adjusted for patients with reduced renal function (see Patients with Renal Impairment).

Patients who do not experience sufficient pain relief following 2 to 4 weeks of treatment with 300 mg/day, and who are able to tolerate LYRICA, may be treated with up to 300 mg two times a day, or 200 mg three times a day (600 mg/day). In view of the dose-dependent adverse effects and the higher rate of treatment discontinuation due to adverse events, dosing above 300 mg/day should be reserved only for those patients who have ongoing pain and are tolerating 300 mg/day is 6se Adverse Reactions).

When discontinuing LYRICA, taper gradually over a minimum of 1 week.

Patients with Renal Impairment:

In view of dose-dependent adverse events and since Lyrica is eliminated primarily by renal excretion, the dose should be adjusted in patients with reduced renal function. Dosage adjustment in patients with renal impairment should be based on CLcr, as indicated in Table 3. To use this dosing table, an estimate of the patient's CLcr in mL/min is needed. CLcr in mL/min may be estimated from serum creatinine (mg/dL) determination using the Cockroft and Gault equation:

$$CLc_r = \frac{[140 - age (years)] \times weight (kg)}{72 \times serum (reatinine (mg/dL))} (\times 0.85 \text{ for female patients})$$

For patients undergoing hemodialysis, pregahalin daily dose should be adjusted based on renal function. In addition to the daily dose adjustment, a supplemental dose should be given immediately following every 4-hour hemodialysis treatment (see Table 3).

Table 3: Pregabalin Dosage Adjustment Based on Renal Function

Creatinine Clearance (CLcr) (mL/min)	Total Pregabal	in Daily Dose	(mg/day) ⁸	Dose Regimen
≥60	150	300	600	BID or TID
30-60	75	150	300	BID or TID
15-30	25-50	75	150	QD or BID
<15	25	25-50	75	QD

Supplementary dosage following hermodialysis (mg)?

Patients on the 25 mg QD regimen: take one supplemental dose of 25 mg or 50 mg
Patients on the 25-50 mg QD regimen: take one supplemental dose of 50 mg or 75 mg
Patients on the 75 mg QD regimen: take one supplemental dose of 100 mg or 150 mg
TID = Three divided doses; BID = Two divided doses; QD = Single daily dose.

- Total daily dose (mg/day) should be divided as indicated by dose regimen to
- provide mg/dose.

 Supplementary dose is a single additional dose.

HOW SUPPLIED

25-mg capsules:

White, hard-gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 25" on the body; available in:

Bottles of 90 capsules:

NDC0071-1012-68

Unit-Dose Blister Packages of 100:

NDC0071-1012-41

50-mg capsules:

White, hard-gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 50" and an ink band on the body, available in:

Bottles of 90:

NDC0071-1013-68

Unit-Dose Blister Packages of 100:

NDC0071-1013-41

75-mg capsules:

White/orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 75" on the body; available in:

Bottles of 90:

NDC0071-1014-68

Unit-Dose Blister Packages of 100:

Unit-Dose Blister Packages of 100:

NDC0071-1014-41

100-mg capsules:

Orange, hard-gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 100" on

the body, available in:

Bottles of 90:

NDC0071-1015-68

NDC0071-1015-41

150-mg capsules:

White hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 150" on the

body, available in:

Bottles of 90 capsules:

NDC0071-1016-68

Unit-Dose Blister Packages of 100:

NDC0071-1016-41

200-mg capsules:

Light orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 200" on the body, available in:

Bottles of 90:

NDC0071-1017-68

Unit-Dose Blister Packages of 100:

NDC0071-1017-41

225-mg capsules:

White/light orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 225" on the body; available in:

Bottles of 90:

NDC0071-1019-68

Unit-Dose Blister Packages of 100:

NDC0071-1019-41

300-mg capsules:

White/orange hard gelatin capsule printed with black ink "Pfizer" on the cap, "PGN 300" on the body, available in:

Bottles of 90:

NDC0071-1018-68

Unit-Dose Blister Packages of 100:

NDC0071-1018-41

Storage

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) (see USP Controlled Room Temperature).

Rx Only



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PATIENT INFORMATION



Read the Patient Information that comes with LYRICA before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your condition or treatment. If you have any questions about LYRICA, ask your doctor or pharmacist.

What is the most important information I should know about LYRIGA?

1. LYRICA may cause dizziness and sleepiness.

- Do not drive a car, work with machines, or do other dangerous activities until you know how LYRICA affects how altert you are. Ask your doctor when it is okay to do these activities.
- LYRICA may cause problems with your eyesight, including blurry vision.
 - · Call your doctor if you have any changes in your eyesight.

What is LYRICA?

LYRICA is a prescription medicine used in adults, 18 years and older, to treat pain from damaged nerves (neuropathic pain) that:

- · happens with diabetes, or
- follows healing of shingles (a painful rash that comes after a herpes zoster infection)

Diabetes and shingles can damage your nerves. Pain from damaged nerves may feel sharp, burning, tingling, shooting, or numb. If you have diabetes, the pain can be in your arms, hands, fingers, legs, feet, or toes. If you have shingles, the pain is in the area of your rash. You may experience this kind of pain even with a very light touch. LYRICA can help relieve the pain. Some people taking LYRICA had less pain by the end of the first week of LYRICA therapy, LYRICA had the properties of the pain of the properties of the pain of the pain of the first week of LYRICA therapy, LYRICA had help the pain by the end of the first week of LYRICA therapy, LYRICA had help the pain by the rend of the first week of LYRICA therapy, LYRICA had help the pain the pain of the first week of LYRICA therapy. LYRICA had help the pain of the pain

LYRICA has not been studied for nerve pain in children under 18 years of age.

Who Should Not Take LYRICA?

may not work for everyone.

Do not take LYRICA if you are allergic to any of its ingredients.
The active ingredient is pregabalin. See the end of this leaflet for a complete list of ingredients in LYRICA.

What should I tell my doctor before taking LYRICA? Tell your doctor about all your medical conditions, including if you:

- have any kidney problems or get kidney dialysis
- · have heart problems including heart failure
- have a bleeding problem or a low blood platelet count
 are pregnant or plan to become pregnant. It is not known if LYRICA may harm your unborn baby. You and your doctor will
- LYRICA may harm your unborn baby. You and your doctor will have to decide if LYRICA is right for you while you are pregnant.

 are breastfeeding. It is not known if LYRICA passes into
- arc breastfeeding. It is not known if LYRICA passes into breast milk and if it can harm your baby. You and your doctor should decide whether you should take LYRICA or breastfeed, but not both.

Tell your doctor about all the medicines you take including prescription or non-prescription medicines, vitamins or herbal supplements. LYRICA and other medicines may affect each other. Especially tell your doctor if you take:

- rosiglitazone (Avandia®) or pioglitazone (Actos®) for diabetes.

 You may have a higher chance of weight gain or swelling if
 these medicines are taken with LYRICA. See "What are the
 possible side effects of LYRICA"
- any narcotic pain medicine (such as oxycodone), tranquilizers or medicines for anxiety (such as lorazepam). You may have a higher chance for dizziness and steepiness if these medicines are taken with LYRICA. See "What is the most important information I should know about LYRICA?"
- any medicines that make you sleeny

Know all the medicines you take. Keep a list of them with you to show your doctor and pharmacist each time you get a new medicine.

Tell your doctor if you plan to father a child. Animal studies showed that pregabalin, the active ingredient in LYRICA, made male animals less fertile. Also, in animal studies, birth defects occurred in the offspring of male animals who were treated with pregabalin. It is not known if these effects would happen in people.

How should I take LYRICA?

- Take LYRICA exactly as prescribed. Your doctor may adjust your dose during treatment. Do not change your dose without talking to your doctor.
 - talking to your doctor.

 Do not stop taking LYRICA suddenly without talking to your doctor. If you stop taking LYRICA suddenly, you may have headaches, nausea, diarrhea or trouble sleeping. Talk with your
- doctor about how to slowly stop LYRICA.

 LYRICA is usually taken 2 or 3 times a day, depending on your medical condition. Your doctor will tell you how much LYRICA to take and when to take it. Take LYRICA at the same times each day.
- LYRICA may be taken with or without food.
 If you miss a dose by a few hours, take it as soon as you remember. If it is close to your next dose, just take
 LYRICA at your next regular time. Do not take two doses at the same time.
- If you take too much LYRICA, call your doctor or poison control center or go to the nearest emergency room right away.

What Should I Avoid While Taking LYRICA?

- Do not drive a car, work with machines, or do other dangerous activities until you know how LYRICA affects how alert you are. See "What is the most important information I should know about LYRICA?"
- Do not drink alcohol while taking LYRICA. LYRICA and alcohol can affect each other and increase side effects such as sleepiness and dizziness. This can be dangerous,
- Do not take other medicines without talking to your doctor. Other medicines include prescription and non-prescription medicines, vitamins, and herbal supplements. LYRICA and other medicines may affect each other and increase the side effects of sleepiness and dizziness. Be especially carrful about medicines that make you sleepy (such as sleeping pills, anxiety medicines, tranquilizers and some antibistamines, pain relievers and seizure medicines).

Version Date: December 30, 2004

What are the possible side effects of LYRICA?

LYRICA may cause side effects including:

- dizziness and sleeplness. See "What is the most important information I should know about LYRICA?"
- eyesight problems. See "What is the most important
- information I should know about LYRICA?"
- weight gain and swelling of the hands and feet (edema). Weight gain may affect the management of diabetes. Weight gain and swelling can also be a serious problem for people with heart problems.
- unexplained musele problems, such as muscle pain, soreness, or weakness. If you develop these symptoms, especially if you also feel sick and have a fever, tell your doctor right away.

The most common side effects of LYRICA are:

- dizziness
 - blurry vision
- · trouble concentrating · swelling of hands and feet
- weight gain · dry mouth
- sleepiness

LYRICA caused skin sores in animals. Although skin sores were not seen in studies in people, if you have diabetes, you should pay extra attention to your skin while taking LYRICA and tell your doctor of any sores or skin problems.

LYRICA may cause some people to feel "high." Tell your doctor, if you have abused prescription medicines, street drugs, or alcohol in the past

Tell your doctor about any side effect that bothers you or that does not go away.

These are not all the side effects of LYRICA. For more information, ask your doctor or pharmacist.

How should I store LYRICA?

- Store LYRICA at room temperature, 59 to 86° F (15 to 30°C) in its original package.
- Safely throw away LYRICA that is out of date or no longer
- needed.
- Keep LYRICA and all medicines out of the reach of children

General information about LYRICA

Medicines are sometimes prescribed for conditions other than those listed in patient information leaflets. Do not use LYRICA for a condition for which it was not prescribed. Do not give LYRICA to other people, even if they have the same symptoms you have. It may harm them,

This leaflet summarizes the most important information about LYRICA. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about LYRICA that is written for health professionals. You can also visit the LYRICA website at www.LYRICA.com or call 1-866-41 YRICA

What are the ingredients in LYRICA?

Active ingredient: pregabalin

Inactive ingredients: lactose monohydrate, cornstarch, talc; Capsule shell: gelatin and titanium dioxide; Orange capsule shell: red iron oxide; White capsule shell: sodium lauryl sulfate, colloidal silicon dioxide. Colloidal silicon dioxide is a manufacturing aid that may or may not be present in the capsule shells.

Imprinting Ink: shellee, black iron oxide, propylene glycol, potassium hydroxide.



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/s/

Robert Meyer 12/30/04 04:36:18 PM

United States Patent [19]

Singh

[11] Patent Number: [45] Date of Patent:

6.001.876 Dec. 14, 1999

[54]	ISOBUTYLGABA AND ITS DERIVATIVES
	FOR THE TREATMENT OF PAIN

- [75] Inventor: Lakhbir Singh, Cambridgeshire, United Kingdom
- [73] Assignce: Warner-Lambert Company, Morris Plains, N.J.
- 09/043.358 [21] Appl. No.:
- [22] PCT Filed: Jul. 16, 1997
- [86] PCT No.: PCT/US97/12390 § 371 Date: Jul. 15, 1998
 - § 102(e) Date: Jul. 15, 1998
- [87] PCT Pub. No.: WO98/03167
- PCT Pub. Date: Jan. 29, 1998 Related U.S. Application Data [60] Provisional application No. 60/022,337, Jul. 24, 1996.

- [51] Int. Cl.6 A61K 31/195 U.S. Cl.
- [58] Field of Search 514/561
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U.S. PATENT DOCUMENTS

5.563.175 10/1996 Silverman et al. 514/561 FOREIGN PATENT DOCUMENTS

9209560 6/1992 WIPO . 9323383 11/1993 WIPO .

Primary Examiner-James H. Reamer Attorney, Agent, or Firm-Elizabeth M. Anderson

ABSTRACT

[56]

The instant invention is a method of using certain analogs of glutamic acid and gamma-aminobutyric acid in pain therapy.

15 Claims, 18 Drawing Sheets

FIG-1a GABAPENTIN

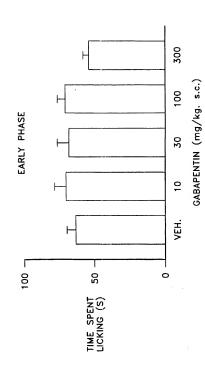
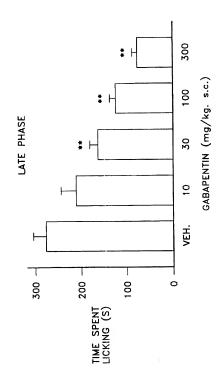


FIG-1b GABAPENTIN



6,001,876

FIG-1c c1-1008

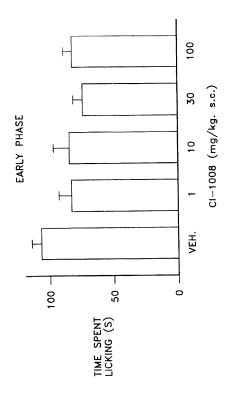


FIG-1d CI-1008

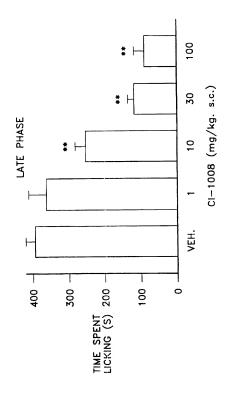


FIG-1e PD 144550

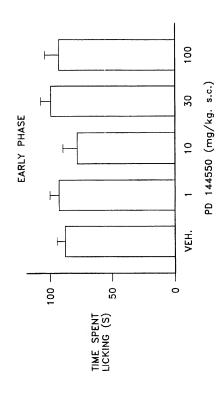
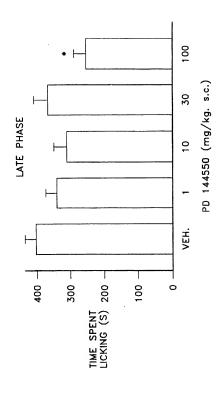
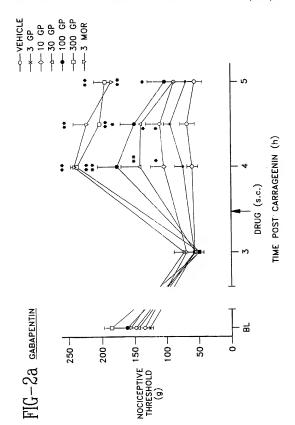
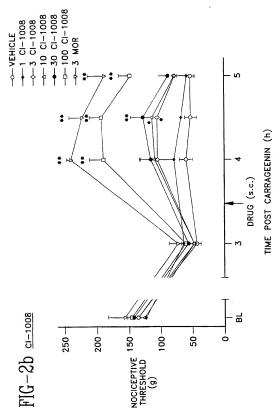


FIG-1f PD 144550









→ VEHICLE → 10 GP → 30 GP -0 100 GP

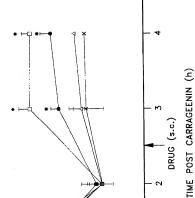
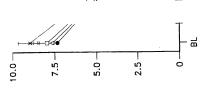


FIG-3a GABAPENTIN



(s) Pk

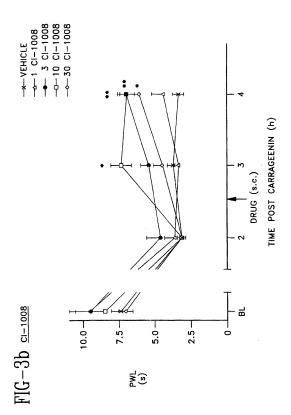
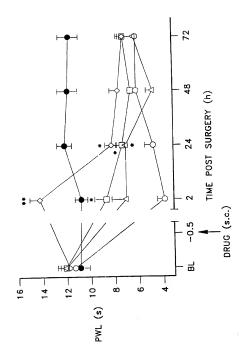


FIG-4a



TIME POST SURGERY (h) DRUG (s.c.) | 9 10 12 PWL (s)

FIG-4b

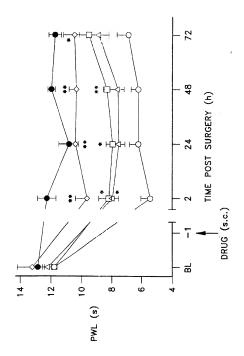


FIG-4c

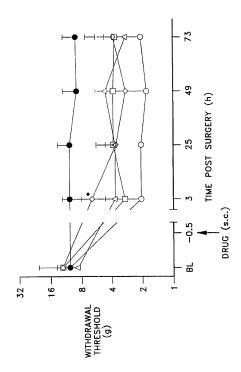


FIG-5a

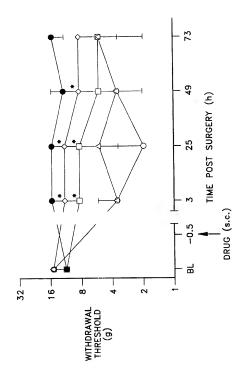


FIG-5b

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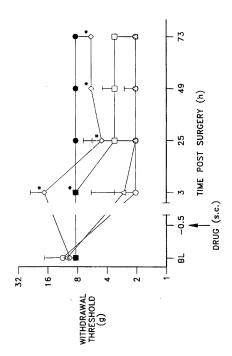
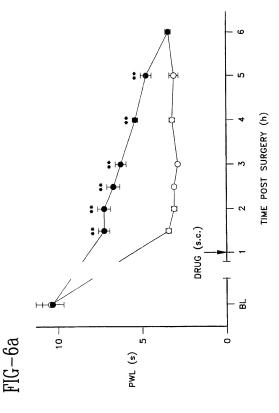
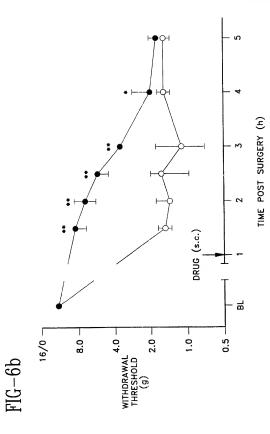


FIG-5c





ISOBUTYLGABA AND ITS DERIVATIVES FOR THE TREATMENT OF PAIN

This application claims benefit of Provisional application Ser. No. 60/022,337, Jul. 24, 1996.

BACKGROUND OF THE INVENTION

The present invention is the use of analogs of glutamic acid and gamma-aminobutyric acid (GABA) in pain therapy, as the compounds exhibit analgesic/antihyperalgesic action. Advantages of the use of the compounds includes the finding that repeated use does not lead to tolerance nor is there a cross-tolerance between morphine and the compounds.

The compounds of the invention are known agents useful 15 in antiseizure therapy for central nervous system disorders such as epilepsy, Huntington's chorea, cerebral ischemia, Parkinson's disease, tardive dyskinesia, and spasticity. It has also been suggested that the compounds can be used as antidepressants, anxiolytics, and antipsychotics. See WO 20 92/09560 (U.S. Ser. No. 618,692 filed Nov. 27, 1990) and WP 93/23383 (U.S. Ser. No. 886,080 filed May 20, 1992).

SUMMARY OF THE INVENTION

The instant invention is a method of using a compound of 25 Formula I below in the treatment of pain, especially for treatment of chronic pain disorders. Such disorders include, but are not limited to, inflammatory pain, postoperative pain, osteoarthritis pain associated with metastatic cancer, trigeminal neuralgia, acute herpetic and postherpetic 30 S-(+)-3-Isobutylgaba on Thermal Hyperalgesia in the Rat neuralgia, diabetic neuropathy, causalgia, brachial plexus avulsion, occipital neuralgia, reflex sympathetic dystrophy, fibromyalgia, gout, phantom limb pain, bum pain, and other forms of neuralgic, neuropathic, and idiopathic pain syn-

A compound are those of Formula I

or a pharmaceutically acceptable salt thereof wherein

R, is a straight or branched alkyl of from 1 to 6 carbon atoms, phenyl, or cycloalkyl of from 3 to 6 carbon

R, is hydrogen or methyl; and

R, is hydrogen, methyl, or carboxyl. Diastereomers and enantiomers of compounds of Formula I are included in the invention.

Preferred compounds of the invention are those according

-(CH₂)₀₋₂-i C₄H₉ as an (R), (S), or (R,S) isomer. The more preferred compounds of the invention are

(S)-3-(aminomethyl)-5-methylhexanoic acid and 3-aminomethyl-5-methyl-hexanoic acid.

BRIFF DESCRIPTION OF THE DRAWINGS

FIG. 1. Effect of Gabapentin (1-(aminomethyl)cyclohexaneacetic acid), CI-1008 ((S)-3-(aminomethyl)-5methylhexanoic acid), and 3-aminomethyl-5-methylhexanoic acid in the Rat Paw Formalin Test

Test compounds were administered s.c. 1 hour before an intraplantar injection of 50 uL formalin. The time spent

licking/biting the injected paw during the early and late phases was scored. Results are shown as the mean ±SEM of 6 to 8 animals per group. *P<0.05 and **P<0.01 significantly different from vehicle (Veh.) treated controls (ANOVA followed by Dunnett's t-test).

FIG. 2. Effect of Gabapentin and C1-1008 on Carrageenin-Induced Mechanical Hyperalgesia

Nociceptive pressure thresholds were measured in the rat using the paw pressure test. Baseline (BL) measurements were taken before animals were administered with 100 µL of 2% carrageenin by intraplantar injection. Results are shown as mean (±SEM) of 8 animals per group. Gabapentin (GP), CI-1008, or morphine (MOR; 3 mg/g) was administered s.c. 3.5 hours after carrageenin. *P<0.05 and **P<0.01 significantly different from vehicle control group at the same time point (ANOVA followed by Dunnett's t-test).

FIG. 3. Effect of Gabapentin and CI-1008 on Carrageenin-Induced Thermal Hyperalgesia

Nociceptive thermal thresholds were measured in the rat using the Hargreaves apparatus. Baseline (BL) measurements were taken before animal s were administered with 100 µL of 2% carrageenin by intraplantar injection. Results are shown as mean (±SEM) of 8 animals per group. Gabapentin (GP) or CI-1008 was administered s.c. 2.5 hours after carrageenin. *P<0.05 and **P<0.01 significantly different from vehicle control group at the same time point (ANOVA followed by Dunnett's t-test).

FIG. 4. Effect of (a) Morphine, (b) Gabapentin, and (c) Postoperative Pain Model

Gabapentin or S-(+)-3 isobutylgaba was administered 1 hour before surgery. Morphine was administered 0.5 hour before surgery. Thermal paw withdrawal latencies (PWL) 35 were determined for both ipsilateral and contralateral paws using the rat plantar test. For clarity contralateral paw data for drug-treated animals is not shown. Baseline (BL) measurements were taken before surgery and PWL were reassessed 2, 24, 48, and 72 hours postsurgery. Results are 40 expressed as the mean PWL(s) of 8 to 10 animals per group (vertical bars represent ±SEM). *P<0.05 **P<0.01 significantly different (ANOVA followed by Dunnett's t-test), comparing ipsilateral paw of drug-treated groups to ispsilateral paw of vehicle-treated group at each time point. In the 45 figure, -- is vehicle contralateral, -O- is vehicle ispsilateral, -∆- is 1 mg/kg morphine, -- is 3, and — ⋄ — is 6 for morphine in 4a. In 4b, — Δ — is 3, —□ is 10, and - 0 - is 30 for gabapentin. In 4c, - ∆ - is 3 mg/kg, —□— is 10, and — ◊ — is 30 for S-(+)-50 isobutylgaba.

FIG. 5 Effect of (a) Morphine, (b) Gabapentin, and (c) S-(+)-3-Isobutylgaba on Tactile Allodynia in the Rat Postoperative Pain Model

Gabapentin or S-(+)-3-isobutylgaba was administered 1 to claim 1 wherein R3 and R2 are hydrogen, and R1 is 55 hour before surgery. Morphine was administered 0.5 hour before surgery. Paw withdrawal thresholds to von Frey hair filaments were determined for both insilateral and contralateral paws. For clarity, contralateral paw data for drug-treated animals is not shown. Baseline (BL) measurements were 60 taken before surgery, and withdrawal thresholds were reassessed 3, 25, 49, and 73 hours postsurgery. Results are expressed as median force (g) required to induce a withdrawal of paw in 8 to 10 animals per group (vertical bars represent first and third quartiles). *P<0.05 significantly different (Mann Whitney t-test) comparing ipsilateral paw of drug-treated groups to ipsilateral paw of vehicle treated group at each time point. In FIG. 5, - is vehicle

contralateral, -O- is vehicle ispsilateral. For morphine (5a), —Δ— is 1 mg/kg, —□— is 3, and — ◊ — is 16. In 5b for gabapentin and S-(+)-isobutylgaba, --- is 3

mg/kg, — is 10, and — \$ — is 30.

FIG. 6. Effect of S-(+)-3-Isobutylgaba on the Mainte- 5 nance of (a) Thermal Hyperalgesia and (b) Tactile Allodynia in the Rat Postoperative Pain Model.

S-(+)-3-Isobutylgaba (S-(+)-IBG) was administered 1 hour after surgery. Thermal paw withdrawal latencies, determined using the rat plantar test, and paw withdrawal thresh- 10 olds to von Frey hair filaments, were determined in separate groups of animals for both ipsilateral and contralateral paws. For clarity only the ipsilateral paw data is shown. Baseline (BL) measurements were taken before surgery and withdrawal thresholds were reassessed up to 6 hours postsurgery. 15 For thermal hyperalgesia, the results are expressed as the mean PWL(s) of 6 animals per group (vertical bars represent ±SEM), *P<0.05 **P<0.01 significantly different (unpaired t-test), comparing ipsilateral paw of drug-treated group to ipsilateral paw of vehicle (Veh -O-) treated group at each 20 time point. For tactile allodynia, the results are expressed as median force (g) required to induce a paw withdrawal of 6 animals per group (vertical bars represent first and third quartiles). *P<0.05 significantly different (Mann Whitney t-test), comparing insilateral paw of drug-treated group to 25 ipsilateral paw of vehicle-treated group at each time point. -- is S-(+)-IBG at 30 mg/kg.

DETAILED DESCRIPTION

The instant invention is a method of using a compound of Formula I above as an analgesic in the treatment of pain as listed above. Pain such as inflammatory pain, neuropathic pain, cancer pain, postoperative pain, and idiopathic pain which is pain of unknown origin, for example, phantom limb pain are included especially. Neuropathic pain is caused by injury or infection of peripheral sensory nerves. It includes, but is not limited to pain from peripheral nerve trauma, herpes virus infection, diabetes mellitus, causalgia, plexus avulsion, neuroma, limb amputation, and vasculitis. Neuropathic pain is also caused by nerve damage from chronic alcoholism, human immunodeficiency virus infection, hypothyroidism, uremia, or vitamin deficiencies. Neuropathic pain includes, but is not limited to pain caused by nerve injury such as, for example, the pain diabetics suffer from.

The conditions listed above are known to be poorly treated by currently marketed analgesics such as narcotics or nonsteroidal anti-inflammatory drugs (NSAID) due to insufficient efficacy or limiting side effects.

term is methyl, ethyl, propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, isopentyl, and neopentyl, as well as those as would occur to one skilled in the art.

The term "cycloalkyl" is exemplified by cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl.

The compounds of the present invention may form pharmaceutically acceptable salts with both organic and inorganic acids or bases. For example, the acid addition salts of the basic compounds are prepared either by dissolving the free base in aqueous or aqueous alcohol solution or other 60 suitable solvents containing the appropriate acid and isolating the salt by evaporating the solution. Examples of pharmaceutically acceptable salts are hydrochlorides, hydrobromides, hydrosulfates, etc. as well as sodium, potassium, and magnesium, etc. salts.

The compounds of the present invention can contain one or several asymmetric carbon atoms. The invention includes the individual diastereomers or enantiomers, and the mixtures thereof. The individual diastereomers or enantiomers may be prepared or isolated by methods already well-known in the art

The method for the formation of the 3-alkyl-4aminobutanoic acids starting from 2-alkenoic esters is prepared from commercially available aldehydes and monoethyl malonate by the Knoevenagel reaction (Kim Y. C., Cocolase G. H., J. Med. Chem., 1965:8509), with the exception of cthyl 4,4-dimethyl-2-pentenoate. This compound was prepared from 2,2-dimethylpropanal and ethyl lithioacetate, followed by dehydration of the β-hydroxyester with phosphoryl chloride and pyridine. The Michael addi-

tion of nitromethane to o, \u03b3-unsaturated compounds mediated by 1,1,3,3-tetramethylguanidine or 1,8-diazabicyclo [5.4.0]undec-7-ene(DBU) afforded 4-nitroesters in good vields.

Although the aliphatic nitro compounds are usually reduced by either high pressure catalytic hydrogenation by metal-catalyzed transfer hydrogenation, or by newly introduced hydrogenolysis methods with ammonium formate or sodium borohydride and palladium as catalysts, applicants have found that 4-nitrocarboxylic esters can be reduced almost quantitatively to the corresponding 4-aminocarboxylic esters by hydrogenation using 10% palladium on carbon as catalysts in acetic acid at room temperature and atmospheric pressure. The amino esters produced were subjected to acid hydrolysis to afford the subject inventive compounds in good yields. This procedure provides access to a variety of 3-alkyl-4-aminobutanoic acids as listed in Tables 1 and 2 as examples, and thus is advantageous in comparison to methods previously used.

When the starting material is not commercially available, the synthetic sequence was initiated with the corresponding alcohol, which was oxidized to the aldehyde by the method of Corey, et al., Tetrahedrom. Lett., 1975:2647-2650.

The compounds made by the synthetic methods can be used as pharmaceutical compositions as agent in the treatment of pain when an effective amount of a compound of the 40 Formula I, together with a pharmaceutically acceptable carrier is used. The pharmaceutical can be used in a method for treating such disorders in mammals, including human, suffering therefrom by administering to such mammals an effective amount of the compound as described above in unit dosage form.

The pharmaceutical compound, made in accordance with the present invention, can be prepared and administered in a wide variety of dosage forms by either oral or parenteral routes of administration. For example, these pharmaceutical The terms used in Formula I are, for example, alkyl which 50 compositions can be made in inert, pharmaceutically acceptable carriers which are either solid or liquid. Solid form preparations include powders, tablets, dispersible granules, capsules, cachets, and suppositories. Other solid and liquid form preparations could be made in accordance with known 55 methods of the art and administered by the oral route in an appropriate formulation, or by a parenteral route such as intravenous, intramuscular, or subcutaneous injection as a liquid formulation.

> The quantity of active compound in a unit dose of preparation may be varied or adjusted from 1 mg to about 300 mg/kg daily, based on an average 70-kg patient. A daily dose range of about 1 mg to about 50 mg/kg is preferred. The dosages, however, may be varied depending upon the requirement with a patient, the severity of the condition being treated, and the compound being employed. Determination of the proper dosage for particular situations is within the skill of the art.

Effects of Gabapentin, CI-1008, and 3-Aminomethyl-5methyl-hexanoic Acid in the Rat Formalin Paw Test

Male Sprague-Dawley rats (70-90 g) were habituated to perspex observation chambers (24 cm×24 cm×24 cm) for at least 15 minutes prior to testing. Formalin-induced hind paw licking and biting was initiated by a 50 µL subcutaneous injection of a 5% formalin solution (5% formaldehyde in isotonic saline) into the plantar surface of the left hind paw. Immediately following the formalin injection, licking/biting of the injected hind paw was scored in 5 minute bins for 60 10 minutes. The results are expressed as mean combined licking/biting time for the early phase (0-10 minutes) and late phase (10-45 minutes).

The s.c. administration of gabapentin (10-300 mg/kg) or CI-1008 (1-100 mg/kg) 1 hour before formalin dose- 15 dependently blocked the licking/biting behavior during the late phase of the formalin response with respective minimum effective doses (MED) of 30 and 10 mg/kg (FIG. 1). However, neither of the compounds affected the early phase at any of the doses tested. Similar administration of 20 3-aminomethyl-5-methyl-hexanoic acid produced only a modest blockade of the late phase at 100 mg/kg.

Effects of Gabapentin and CI-1008 on Carrageenin-Induced Hyperalgesia

On the test Day, 2 to 3 baseline measurements were taken 25 before rats (male Sprague-Dawley 70-90 g) were administered with 100 µL of 2% carrageenin by intraplantar injection into the right hind paw. Animals were dosed with the test drug after development of peak hyperalgesia. Separate groups of animals were used for the mechanical and thermal 30 hyperalgesia studies.

A. Mechanical Hyperalgesia

Nociceptive pressure thresholds were measured in the rat paw pressure test using an analgesimeter (Ugo Basile). A cut-off point of 250 g was used to prevent any damage to the 35 sutures were removed after 48 hours. paw. The intraplantar injection of carrageenin produced a reduction in the nociceptive pressure threshold between 3 and 5 hours after injection, indicating induction of hyperalgesia. Morphine (3 mg/kg, s.c.) produced a complete blockade of hyperalgesia (FIG. 2). Gabanentin (3-300 mg/kg. 40 s.c.) and CI-1008 (1-100 mg/kg, s.c.) dose-dependently antagonized the hyperalgesia, with respective MED of 10 and 3 mg/kg (FIG. 2).

B. Thermal Hyperalgesia

Baseline paw withdrawal latencies (PWL) were obtained 45 for each rat using the Hargreaves model. Carrageenin was injected as described above. Animals were then tested for thermal hyperalgesia at 2 hours postcarrageenin administration. Gabapentin (10-100 mg/kg) or CI-1008 (1-30 mg/kg) was administered s.c. 2.5 hours after carrageenin, and PWL 50 were reevaluated at 3 and 4 hours postcarrageenin administration. Carrageenin induced a significant reduction in paw withdrawal latency at 2, 3, and 4 hours following injection, indicating the induction of thermal hyperalgesia (FIG. 3). Gabapentin and CI-1008 dose-dependently antagonized the 55 hyperalgesia with a MED of 30 and 3 mg/kg (FIG. 3).

These data show that gabapentin and CI-1008 are effective in the treatment of inflammatory pain.

The assay of Bennett G. J. provides an animal model of a peripheral mononeuropathy in rat that produces disorder of 60 pain sensation like those seen in man (Pain, 1988:33:87-107).

The assay of Kim S. H., et al., provides one experimental model for peripheral neuropathy produced by segmented spinal nerve ligation in the rat (Pain, 1990;50:355-363).

A rat model of postoperative pain has been described (Brennan et al., 1996). It involves an incision of the skin,

fascia, and muscle of the plantar aspect of the hind paw. This leads to an induction of reproducible and quantifiable mechanical hyperalgesia lasting several days. It has been suggested that this model displays some similarities to the human postoperative pain state. In the present study we have examined and compared the activities of gahapentin and S-(+)-3-isobutylgaba with morphine in this model of postoperative pain.

METHODS

Male Sprague-Dawley rats (250-300 g), obtained from Bantin and Kingmen, (Hull, U. K.) were used in all experiments. Before surgery, animals were housed in groups of 6 under a 12-hour light/dark cycle (lights on at 07 hour 00 minute) with food and water ad libitum. Postoperatively, animals were housed in pairs on "Aqua-sorh" hedding consisting of air laid cellulose (Beta Medical and Scientific, Sale, U.K.) under the same conditions. All experiments were carried out by an observer blind to drug treatments.

Surgery

Animals were anaesthetized with 2% isofluorane and 1.4 O2/NO2 mixture which was maintained during surgery via a nose cone. The plantar surface of the right hind paw was prepared with 50% ethanol, and a 1-cm longitudinal incision was made through skin and fascia, starting 0.5 cm from the edge of the heel and extending towards the toes. The plantaris muscle was elevated using forceps and incised longitudinally. The wound was closed using two simple sutures of braided silk with a FST-02 needle. The wound site was covered with Terramycin spray and Auromycin powder. Postoperatively, none of the animals displayed any signs of infection with the wounds healing well after 24 hours. The

Evaluation of Thermal Hyperalgesia

Thermal hyperalgesia was assessed using the rat plantar test (Ugo Basile, Italy) following a modified method of Hargreaves, et al., 1988. Rats were habituated to the apparatus which consisted of three individual perspex boxes on an elevated glass table. A mobile radiant heat source was located under the table and focused onto the hind paw and paw withdrawal latencies (PWL) were recorded. There was an automatic cut off point of 22.5 seconds to prevent tissue damage. PWLs were taken 2 to 3 times for both hind paws of each animal, the mean of which represented haselines for right and left hind paws. The apparatus was calibrated to give a PWL of approximately 10 seconds. PWL(s) were reassessed following the same protocol as above 2, 24, 48, and 72 hours postoperatively.

Evaluation of Tactile Allodynia

Tactile allodynia was measured using Semmes-Weinstein von Frey hairs (Stoelting, Ill., U.S.A.). Animals were placed into wire-mesh-bottom cages allowing access to the underside of their paws. The animals were habituated to this environment prior to the start of the experiment. Tactile allodynia was tested by touching the plantar surface of the animals hind paw with von Frey hairs in ascending order of force (0.7, 1.2, 1.5, 2, 3.6, 5.5, 8.5, 11.8, 15. 1, and 29 g) until a paw withdrawal response was elicited. Each von Frey hair was applied to the paw for 6 seconds, or until a response occurred. Once a withdrawal response was established, the paw was retested, starting with the next descending von Frey hair until no response occurred. The highest force of 29 g ified the paw as well as eliciting a response, thus represented the cut-off point. Each animal had both hind paws tested in this manner. The lowest amount of force required to clicit a response was recorded as withdrawal threshold in grams. When compounds were administered before surgery, 5' the same animals were used to study drug effects on tactife, allocytin, and thermal typer algasis, with each animal beside allocytin, and thermal typer algasis, with each animal beside specially of the same and the sa

Statistics

Data obtained for thermal hyperalgesia was subjected to a one-way (analysis of variance) ANOVA followed by a Dunnent's t-test. Tactile allodynia results obtained with the von Frey hairs were subjected to an individual Mann Whitney t-test.

RESULTS

An incission of the rat plantaris muscle led to an induction of thermal hyperalgesia and tactile allodynia. Both nociceptive responses peaked within 1 hour following surgery and were maintained for 3 days. During the experimental period, 2s all atimals remained in good health.

Effect of Gabapentin. S-(+)-3-Isobutylgaba and Morphine Administered Before Surgery on Thermal Hyperalgesia

The single-dose administration of gabapientin 1 hour before surgery dose-dependently (3–30 m/g/sg, s.2) blocked advelopment of thermal hyperalgesia with a MED of 30 m/g/sg (FIG. 10). The highest dose of 30 m/g/sg gabapientin prevented the hyperalgesic response for 24 hours (FIG. 16). dependently (3–30 m/g/s, s.2) prevented development of thermal hyperalgesia with a MED of 3 m/g/s (FIG. 1c). The 33 m/g/s (FIG. 1c). The 33 m/g/s (FIG. 1c) and (5 (4)-3-isobutylgab was effective up to 3 days (FIG. 1c). The administration of morphine 0.5 hour before surgery dose-dependently (1–4 m/g/sg, s.C) shour before surgery dose-dependently (1–4 m/g/sg, s.C) and appearance of the development of thermal hyperalgesia with a MED bours effect, due 1). This effect was minimized for 24 of bours effect, due 1). This effect was minimized for 24 of bours effect, due 1).

Effects of Gabapentin, S-(+)-3-Isobutylgaba and Morphine Administered Before Surgery on Tactile Allodynia

The effect of drugs on development of tacilie allodynia was determined in the same animals used for thermal 4s hyperalgesia above. One hour was allowed between thermal hyperalgesia and tactile allodynia tests. Gabapentin dose-dependently prevented development of tacilie allodynia with a MED of 10 mg/kg. The 10 and 30 mg/kg doses of gabapentin were effective for 25 and 49 hours, respectively (Fig. 2b). S-(3-3-isoburjugaba also dose-dependently for the second of the conceptive response was maintained for 3 days by the 30 mg/kg dose of \$4-3-isoburjugaba (FiG. 2c). In its blockade of the nociceptive response was maintained for 3 days by the 30 mg/kg dose of \$4-(3-3-isoburjugaba (FiG. 2c). In contrast, morphine (1-6-mg/kg) only prevented the devel-59 copment of tacilie allodynia for 3 hour postsurgery at the hinghest dose of 6 mg/kg (FiG. 2c).

Effect of S-(+)-3-Isobutylgaba Administered 1 Hour After Surgery on Tactile Allodynia and Thermal Hyperalgesia

The allodynia and hyperalgesia peaked within 1 hour in 60 13. A method accordin all animals and was maintained for the following 5 to 6 hours. The s.c. administration of 30 mg/kg S(+)-3 14. A method accordin stobuylygaba 1 hour after surgery blocked the maintenance of tactile allodynia and thermal hyperalgesia for 3 to 4 hours. After this time, both nociceptive responses returned to control levels indicating disappearance of antihyperalgesic and antiallodynic actions (FIG. 3).

Gabapentin and S-(+)-3-isobutylgaba did not affect PWL in the thermal hyperalgesia test or tactile allodynia scores in the contralateral paw up to the highest dose tested in any of the experiments. In contrast, morphine (6 mg, s.c.) increased PWL of the contralateral paw in the thermal hyperalgesia test (data not shown).

The results presented here show that incision of the rat plantaris muscle induces thermal hyperalgesia and tactile allodynia lasting at least 3 days. The major findings of the present study are that gabapentin and S+(+)-3-isobuly[gaba are equally [feetive at blocking both nociceptive responses. In contrast, morphice was found to be more effective against thermal hyperalgesia than tactical allodynia. Furthermore, S+(+)-3-isobuly[gaba completely blocked induction and maintenance of allodynia and hyperalgesia.

What is claimed is:

 A method for treating pain comprising administering a therapeutically effective amount of a compound of Formula

or a pharmaceutically acceptable salt, diastereomer, or enantiomer thereof wherein

R₁ is a straight or branched alkyl of from 1 to 6 carbon atoms, phenyl, or cycloalkyl of from 3 to 6 carbon atoms;

R2 is hydrogen or methyl; and

R₃ is hydrogen, methyl, or carboxyl to a mammal in need of said treatment.

2. A method according to claim 1 wherein the compound administered is a compound of Formula I wherein R_1 and R_2 are hydrogen, and R_1 is $-(CH_2)_{0-2}$ —i C_4H_9 as an (R), (S), or (R,S) isomer.

 A method according to claim 1 wherein the compound administered is named (S)-3-(aminomethyl)-5methylhexanoic acid and 3-aminomethyl-5-methylhexanoic acid.

 A method according to claim 1 wherein the pain treated is inflammatory pain.

5. A method according to claim 1 wherein the pain treated is neuropathic pain.
 6. A method according to claim 1 wherein the pain treated

is cancer pain.
7. A method according to claim 1 wherein the pain treated

is postoperative pain.

8. A method according to claim 1 wherein the pain treated is phantom limit pain.

A method according to claim 1 wherein the pain treated is bum pain.

 A method according to claim 1 wherein the pain treated is gout pain.

 A method according to claim 1 wherein the pain treated is osteoarthritic pain.

12. A method according to claim 1 wherein the pain treated is trigeminal neuralgia pain.

 13. A method according to claim 1 wherein the pain treated is acute herpetic and postherpetic pain.
 14. A method according to claim 1 wherein the pain

treated is causalgia pain.

15. A method according to claim 1 wherein the pain treated is idiopathic pain.



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MAINTENANCE FEE STATEMENT

The data shown below is from the records of the Patent and Trademark Office. If the maintenance fees and any necessary surcharges have been timely paid for the patents listed below, the notation "PAID" will appear in column 10, "STAT", below.

If a maintenance fee payment is defective, the reason is indicated by code in column 10, "STAT" below. TIMELY CORRECTION IS REQUIRED IN ORDER TO AVOID EXPIRATION OF THE PATENT. NOTE 37 CFR. 1.377. THE PAYMENT(S) WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION. IF PAYMENT OR CORRECTION IS SUBMITTED DURING THE GRACE PERIOD, A SURCHARGE IS ALSO REQUIRED. NOTE 37 CFR. 1.20(s) and (l).

If the statement of small entity status is defective the reason is indicated below in column 10 for the related patent number. THE STATEMENT OF SMALL ENTITY STATUS WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION.

PATENT NUMBER	FEE CODE	FEE AMT	SUR CHARGE	APPLICATION NUMBER	PATENT DATE	FILE DATE	PAY YR	SML ENT	STAT	ATTY DKT NUM	
6,001,876	1551	\$890.00	\$0.00	09/043,358	12/14/99	07/15/98	04	NO	PAID	5454-41-EMA	

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Date	IND/NDA No. Serial No.	Serial No.	Activity	Submission Details
	-		ONI	IND 53,763 - Analgesia
24-Jul-97	53,763	0	Submission to FDA	Initial IND
05-Aug-97	53,763		Letter from FDA	IND Number Assigned 25July1997
14-Aug-97	53,763	-	Submission to FDA	Meeting (8/12/97) Minutes regarding study protocol 1008-013
02-Oct-97	53,763	2	Submission to FDA	Protocol amendment for 1008-013 based on FDA meeting on 12Aug1997
07-Oct-97	53,763	3	Submission to FDA	3 research reports submitted
10-Oct-97	53,763	4	Submission to FDA	Notice of study initiation for study 1008-013
07-Nov-97	53,763	2	Submission to FDA	Investigators Brochure
24-Nov-97	53,763	9	Submission to FDA	Request for End-of-Phase meeting and study protocol 1008-014 review
19-Dec-97	53,763	7	VOD og anjonjandu o	Comparator dissolution data and profiles for over-encapsulated comparators for study
06-Jan-98	53.763	œ	AUT OI HORSIII IO	Meeting (18Dec1997) minutes regarding the proposed clinical development plan for
		,	Submission to FDA	necessity (1920)
29-Jan-98	53,763	6	Submission to FDA	1 research report submitted
06-Feb-98	53,763	10	Submission to FDA	CMC submission - revised impurity specifications
16-Feb-98	53,763	F	Submission to FDA	New study protocols 1008-014 and -015
04-Mar-98	53,763	12	Submission to EDA	Protocol amendment to include new investigators and study centers for protocols 1008
06-Mar-98	53,763	13	Submission to FDA	Annual Report covering periods 01.1an1997 to 01.1an1998
16-Mar-98	53,763	4		Protocol amendment to include new investigators and study centers for protocols 1008
			Submission to FDA	014 and -015
30-Mar-98	53,763	15	Submission to FDA	Protocol amendment to include new investigators and study centers for protocols 1008 014 and -015
14-Apr-98	53,763	16		Protocol amendment to include new investigators and study centers for protocols 1008
04 May 00	60 769	12	Submission to FDA	014 and -015
01-way-90	22,705	<u> </u>	Submission to FDA	Frotocol amendment to include new investigators and study centers for protocols 1008. 014 and -015
14-May-98	53,763	18	Submission to FDA	General correspondance relative to a protocol amendment for protocol 1008-014
21-May-98	53,763	19	Submission to FDA	Protocol amendment to include new investigators and study centers for protocols 1008 013014, and -015
02-Jun-98	53,763	20	Submission to FDA	Response to FDA inquiry (14Mav1998) for additional rat toxicology data
03-Jun-98	53,763	21	Submission to FDA	2 research reports submitted
16-Jun-98	53,763	ន	Submission to FDA	Protocol amendment to include new investigators and study centers for protocols 1008
23-Jun-98	53,763	23	Submission to FDA	New protocols 1008-033
24-Jun-98	53,763	24	Submission to FDA	New protocols 1008-029 and -030
86-Inr-60	53,763	83		Protocol amendment to include new investigators and study centers for protocols 1008
			Submission to FDA	013, -014, and -015

Date INDIVIDUAL	IND/NDA No. Serial No.	Activity	Submission Details
53,763	56	Submission to FDA	New protocol 1008-027
20-Jul-98 53,763	27		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	029, -030, -032, and -033
30-Jul-98 53,763	28		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	029, -030, -032, and -033
	29	Submission to FDA	3 research reports submitted
11-Aug-98 53,763	30		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	014, -015, -029, -030, -032, and -033
26-Aug-98 53,763	31		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	029, -030, -032, and -033
	35	Submission to FDA	1 research report submitted
09-Sep-98 53,763	33	Submission to FDA	Initial Medwatch safety report from study -027
16-Sep-98 53,763	34	Submission to FDA	1 research report submitted
17-Sep-98 53,763	35	Submission to FDA	1 research report submitted
	36	Submission to FDA	1 research report submitted
30-Sep-98 53,763	37	Submission to FDA	3 research reports submitted
09-Oct-98 53,763	88		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	014, -015, -029, -030, -032, and -033
53,763	33	Submission to FDA	New protocol 1008-031
53,763	40		Correspondance to update pain IND from safety data reported under protocol 1008-
		Submission to FDA	027 (epilepsy)
53,763	4		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	014, -015, -029, -030, -032, and -033
53,763	45		Protocol amendment to include new investigators and study centers for protocols 1008
4		Submission to FDA	031 and -033
13-Nov-98 53,763	43		Protocol amendment to include new investigators and study centers for protocols 1008
		Submission to FDA	014, -015, -030, -031, -032, and -033
	44	Submission to FDA	Initial Medwatch safety report for study 1008-009
02-Dec-98 53,763	45		Protocol amendment to include new investigators and study centers for protocols 1008
_		Submission to FDA	029, -030, -031, -032, and -033
03-Dec-98 53,763	46		Correspondance to update pain IND from safety data reported under protocol 1008-
4		Submission to FDA	009 (epilepsy)
	47	Submission to FDA	Initial Medwatch safety report for protocol -015
22-Dec-98 53,763	48	Submission to FDA	Updated Investigational Brochure
	64	A CT - A - ciccionduction	Protocol amendment to include new investigators and study centers for protocols 1008
59 769	5	Submission to TDA	014, -015, -029, -030, -032, and -033
10-0ail-03	3	Submission to FDA	5 research reports submitted

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Submission Details	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-014015, and -029	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-014, -015, -029, -030, -031, -032, and -033	Updated Investigational Brochure	Annual Report covering periods 09Jan1998 to 01Nov1998	Protocol amendments to include either new study centers and/or sub-investigators for	protocols 1008-014, -015, -029, -030, -031, 1008-032, and -033	Request for an End-of-Phase 2 meeting with the Division to reach consensus on the	Phase 3 clinical development plan to identify any additional preclinical and/or clinical	information necessary to support NDA approval of pregabalin	Protocol amendments to include either new principle and/or sub-investigators for	protocols 1008-014, -015, -030, -032, and -033	3 research reports submitted	Follow-up Medwatch safety report for protocol 1008-015	Submission to request an End-of-Phase 2 meeting to discuss the development of	pregabalin (CI-1008) administered TID either alone or in conjunction with other	analgasics for the management of chronic pain	Protocol amendments to include either new study centers and/or sub-investigators for	protocols 1008-014, -015, -029, -, and -033	Initial Medwatch safety report for protocol 1008-015	Updated Investigator's Brochure	Protocol amendments to include either new sub-investigators and/or change's of address for protocols 1008-030, -031, -032, and -033	End-of Phase 2 meeting agenda and objectives for meeting scheduled 17June1999	Follow-up Medwatch safety report for protocol 1008-015	Preliminary results from a clinical trial in painful diabetic peripheral neuropathy (1008- 014)	Initial Medwatch safety report for protocol 1008-033	2 research reports submitted	Updated Investigator's Brochure	Initial Medwatch safety report, protocol 1008-018	Protocol amendments to include new sub-investigators for protocols 1008-014, -015, -	Follow-up Medwatch safety report for protocol 1008-015	Reference made to our 29March1999 request for an End-of-Phase 2 meeting, list of
Activity	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA		Submission to FDA			Submission to FDA	ACT of colonias	Submission to FDA	Submission to FDA	Submission to FDA			Submission to FDA		Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA
Serial No.	51	25	53	54	22		26			22	G	8	29	8			5		62	63	64	92	99	29	89	69	20	11	72	73	74
ND/NDA No.	53,763	53,763	53,763	53,763	53,763		53,763			53,763	59 759	22,703	53,763	53,763			53,763	001.00	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763
Date	28-Jan-99	17-Feb-99	02-Mar-99	08-Mar-99	15-Mar-99		29-Mar-99			01-Apr-99	02 Apr 00	66-Id4-10	14-Apr-99	21-Apr-99			21-Apr-99		SS-Apr-99	11-May-99	12-May-99	14-May-99	19-May-99	20-May-99	26-May-99	05-Jun-99	03-Jun-99	04-Jun-99	07-Jun-99	08-Jun-99	66-Jun-80

Pregabalin IND 53,763 and NDA 21-446 for Analgesia, July 1997 - December 2004

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Submission Details	Protocol amendment to include new study center for protocol 1008-104	Initial Medwatch safety report, protocol 1008-033	Updated Investigator's Brochure	Initial Medwatch safety report for protocol 1008-015	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-031, -033, and -104	Submission including copy of the 14May1998 (SN 018) which provided a critical	assessment of the effects of Pregabalin on the male reproductive system, as well as	further evaluations done in man to identify any effects of pregabalin on	spermatogenesis	End-of-Phase 2 Meeting Minutes for EOP2 Meeting held on 17June1999 to reach	consensus with FDA on the Phase 3 clinical development plan and to identify	clinical/preclinical information to support NDA submission approval of pregabalin	2 research reports submitted	Request of a pre-NDA meeting to discuss the CMC development of Pregabalin.	Meeting objectives are to reach consensus with FDA on the CMC development of	Pregabalin (CI-1008) for above indications, and to identify CMC information for	marketing approval	Initial Medwatch safety report for protocol 1008-011	Follow-up Medwatch safety report for protocol 1008-015	Initial Medwatch safety report for protocol 1008-061	Follow-up Medwatch safety report for protocol 1008-033	Follow-up Medwatch safety report for protocol 1008-033	Appendices A-C of Protocol 1008-072	Updated Investigator's Brochure	9 research reports submitted	Updated Investigator's Brochure	Updates for a pre-NDA meeting request. Original information forwarded 16July1999	Protocol amendment to include new study centers for protocol 1008-033	New Protocol 1008-105 and new study center	Initial Medwatch safety report for protocol 1008-012	Protocol amendments to include new study centers, investigators, and/or sub-	investigators for protocols 1008-029, -030, -033, and -104	Two-year mouse toxicology study update	Request regarding a continuation of the 14Sept1999 meeting to discuss deferred	anda,
Activity	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA				Submission to FDA			Submission to FDA	Submission to FDA				Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA		Submission to FDA	Submission to FDA	
Serial No.	75	92	11	78	62	88				18			82	8				84	82	86	87	88	88	6	91	35	83	95	92	96	26		98	66	
IND/NDA No.	53,763	53,763	53,763	53,763	53,763	53,763				53,763			53,763	53,763				53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763		53,763	53,763	
Date	11-Jun-99	15-Jun-99	16-Jun-99	29-Jun-99	66-Jn[-90	66-Inf-60				13-Jul-99			15-Jul-99	16-Jul-99				22-Jul-99	27-Jul-99	27-Jul-99	29-Jul-99	04-Aug-99	05-Aug-99	06-Aug-99	11-Aug-99	11-Aug-99	13-Aug-99	17-Aug-99	31-Aug-99	10-Sep-99	15-Sep-99		16-Sep-99	24-Sep-99	

Pregabalin IND 53,763 and NDA 21-446 for Analgesia, July 1997 - December 2004

Date	IND/NDA No.	Serial No.	Activity	Submission Details
24-Sep-99	53,763	100	Submission to FDA	Meeting (14Sept1999) minutes, overheads, and amended questions regarding CMC content for the NDA
29-Sep-99	53,763	101	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-015
04-Oct-99	53,763	102	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-015
06-Oct-99	53,763	103	Submission to FDA	Copy of a letter to Investigators for FDA review and proposed wording to include in the Investigator's Brochure
07-Oct-99	53,763	104	Submission to FDA	Initial Medwatch safety report for protocol 1008-012
08-Oct-99	53,763	105	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-012
14-Oct-99	53,763	106	Submission to FDA	Protocol amendments to include either new study centers, change of address, and/or sub-investigators for protocols 1008-029 -033 -104 and -105
29-Oct-99	53,763	107	Submission to FDA	Protocol amendments to include new study centers for protocols -033 and -105
03-Nov-99	53,763	108	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-033 and -105
05-Nov-99	53,763	109	Submission to FDA	Meeting Request for End-of-Phase 2 meeting
16-Nov-99	53,763	110	Submission to FDA	Updated Investigator Brochure and Informed Consent
17-Nov-99	53,763	111	Submission to FDA	1 research report submitted
22-Nov-99	53,763	112	Submission to FDA	Protocol amendments to include either new study centers, change of address, and/or sub-investigators for protocols 1008-030033. and -105
02-Dec-99	53,763	113	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-033 and -105
06-Dec-99	53,763	114	Submission to FDA	Protocol amendments to include new protocols and study centers for protocols 1008-171 and -134
08-Dec-99	53,763	115	Submission to FDA	Protocol amendments to include either most study conters and/or sub-investigators for protocols 1008-031, -033, -015, -0172, and -134
09-Dec-99	53,763	116	Submission to FDA	Initial Medwatch safety report for protocol 1008-061
10-Dec-99	53,763	117	Submission to FDA	Clinical Amendment to Protocol 1008-072 and Meeting (Aug 18, 1999) minutes
13-Dec-99	53,763	118	Submission to FDA	Additional evidence and pre-meeting materials to support a 300-600 mg/day dosing recommendation
15-Dec-99	53,763	119	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-033, -105, -127 -131, and -134
17-Dec-99	53,763	120	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-012
21-Dec-99	53,763	121	Submission to FDA	Updated Investigator's Brochure
21-Dec-99	53,763	122	Submission to FDA	Notice of clinical study start for 1008-72
23-Dec-99	53,763	123	Submission to FDA	Pre-NDA Meeting (14Sept1999) minutes regarding CMC expiry dating
23-Dec-99	53,763	124	Submission to FDA	Initial Medwatch safety report for protocol 1008-105
23-Dec-99	53,763	125	Submission to FDA	Initial Medwatch safety report for protocol 1008-061
28-Dec-99	53,763	126	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-061

Date	IND/NDA No.	Serial No.	Activity	Submission Details
06-Jan-00	53,763	127	Submission to FDA	Protocol amendments to include either new study centers and/or change of adress for protocols 1008-033 and -105
06-Jan-00	53,763	128	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-127, -131, and -
07-Jan-00	53,763	129	Submission to FDA	Updated Investigator's Brochure
11-Jan-00	53,763	130	Submission to FDA	Resubmission with updates for a Type A Pre-NDA meeting, origianl information forwarded 23Dec1999
20-Jan-00	53,763	131	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-033, -105, -127, -131, and -134
21-Jan-00	53,763	132	Submission to FDA	10 research reports submitted
21-Jan-00	53,763	133	Submission to FDA	Initial Medwatch safety report for protocol 1008-045
25-Jan-00	53,763	134	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-072, -105, -127, -131, and -134
25-Jan-00	53,763	135	Submission to FDA	Updated Investigator's Brochure
31-Jan-00	53,763	136	Submission to FDA	Protocol amendments to include either amendments, new study centers and/or sub- investigators for protocols 1008-104, -127, -131, and -134
03-Feb-00	53,763	137	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-127, -131, and -
10-Feb-00	53,763	138	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-033, -105, -127, -131, and -134
14-Feb-00	53,763	139	Submission to FDA	Pre-NDA Meeting (07Feb2000) minutes regarding CMC information
15-Feb-00	53,763	140	Submission to FDA	Request for a Pre-NDA Teleconference Meeting, agenda and attachments provided
16-Feb-00	53,763	141	Submission to FDA	End-of-Phase 2 Meeting (20Dec1999) Minutes
17-Feb-00	53,763	142	Submission to FDA	Initial Medwatch safety report for protocol 1008-035
23-Feb-00	53,763	143	Submission to FDA	Initial Medwatch safety report for protocol 1008-012
25-Feb-00	53,763	144	Submission to FDA	5 research reports submitted
29-Feb-00	53,763	145	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-127, -131, and - 134
01-Mar-00	53,763	146	Submission to FDA	Type C meeting Request: Comment on Analysis Plan for Visual Field Monitoring and Visual Adverse Events
06-Mar-00	53,763	147	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-012
07-Mar-00	53,763	148	Submission to FDA	Updated Investigator's Brochure
08-Mar-00	53,763	149	Submission to FDA	Annual Report covering periods 09Nov1998 to 08Nov1999
10-Mar-00	53,763	150	Submission to FDA	3 research reports submitted
17-Mar-00	53,763	151	Submission to FDA	Type B Meeting Request for a pre-NDA meeting
21-Mar-00	53,763	152	Submission to FDA	1 research report submitted
24-Mar-00	53,763	153	Submission to FDA	1 research report submitted

Date	IND/NDA No.	S	Activity	Submission Details
29-Mar-00	53,763	154	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-031 -033 -127 p.m. 134
07-Apr-00	53,763	155	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-033127131 and -134
10-Apr-00	53,763	156	Submission to FDA	1 research report submitted
10-Apr-00	53,763	157	Submission to FDA	Initial Medwatch safety report for protocol 1008-080
12-Apr-00	53,763	158	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-012
20-Apr-00	53,763	159	Submission to FDA	Protocol amendments to include either new subinvestigators and/or new study centers
24-Anr.00	53 763	180	Submission to EDA	for protocols1008-014, -015, -030, -031, -033, and -104
26-Apr-00	53,763	200	Submission to FDA	Oppared investigators brochure
27-Apr-00	53,763	162	Submission to FDA	1 recearch report culturated
03-May-00	53,763	163	Submission to FDA	1 research report submitted
03-May-00	53,763	164	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-080
05-May-00	53,763	165	Submission to FDA	Type B Meeting: Pre-NDA Meeting Package regarding Neuropathic Pain/Add-on Epileosy
11-May-00	53,763	166	Submission to FDA	Follow-up Medwatch safety report for for protocol 1008-080
17-May-00	53,763	167	Submission to FDA	Protocol amendments to include either new sub-investigators and/or change of
	000			address for protocols 1008-015, -029, -031, -032, and -033
z4-May-uu	53,763	168	Submission to FDA	Protocol amendments to include either new study centers, change of address, and/or sub-investigators for protocols 1008-015030031033104. and -105
01-Jun-00	53,763	169	Submission to FDA	1 research report submitted
05-Jun-00	53,763	170	Submission to FDA	Transfer of sponsor obligations to Kendle International Inc.
06-Jun-00	53,763	171	Submission to FDA	Correspondance to inform FDA of contact information following the Pfizer merger
08-Jun-00	53,763	172	Submission to FDA	2 research reports submitted
16-Jun-00	53,763	173	Submission to FDA	2 research reports submitted
20-Jun-00	53,763	174	Submission to FDA	Updated Investigator's Brochure
22-Jun-00	53,763	175	Submission to FDA	Response to FDA inquiry for additional information for Type C Meeting request
28-Jun-00	53,763	176	Submission to FDA	Protocol amendments to include new sub-investigators for protocols 1008-029, -032, - 031, and -134
30-Jun-00	53,763	177	Submission to FDA	Protocol amendments to include new sub-investigators for protocols 1008-029, -035, -
00-Inf-90	53,763	178	Submission to FDA	Follow-up Medwatch Safety reports for protocols 1008-015 and -033
13-Jul-00	53,763	179	Submission to FDA	Updated CMC Information
20-Jul-00	53,763	180	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-015, -033, -105, -197, and -134
25-Jul-00	53,763	181	Submission to FDA	Meeting minutes from the pre-NDA meeting on 07June2000

Date	IND/NDA No.	Š	Activity	Submission Details
01-Aug-00	53,763	182	Submission to FDA	Protocol amendments to Include new sub-investigators for protocols 1008-015, -033, - 105, and -134
01-Aug-00	53,763	183	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-012
03-Aug-00	53,763	184	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-033
09-Aug-00	53,763	185	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-015
11-Aug-00	53,763	186	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-033, -072, -104, -105, -127, and -134
16-Aug-00	53,763	187	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-045
21-Aug-00	53,763	188	Submission to FDA	2 research reports submitted
23-Aug-00	53,763	189	Submission to FDA	2 research reports submitted
23-Aug-00	53,763	190	Submission to FDA	Reference is made to IND for pregabilin and to a CMC meeting request in which we included a request for a Type A Pre-NDA
25-Aug-00	53,763	191	Submission to FDA	Forwarded a copy of protocol 1008-098, per agency regulast
30-Aug-00	53,763	192	Submission to FDA	Protocol amendments to include new sub-investigators for protocols 1008-030, -033, and -104
31-Aug-00	53,763	193	Submission to FDA	Background document - overview of the pregabalin ERS by NDA Item
01-Sep-00	53,763	194	Submission to FDA	Type C meeting minutes from 03Aug2000 meeting regarding visual fields analysis
00-deS-90	53,763	195	Submission to FDA	Response to FDA inquiry (07June and 12July2003) for patient safety data from protocol 1008-012
19-Sep-00	53,763	196	Submission to FDA	Protocol amendments to include new sub-investinators for protocol 1008-033
22-Sep-00	53,763	197	Submission to FDA	Request to withdraw follow-up pre-NDA CMC meeting without prejudice, for business
02-Oct-00	53,763	198	Submission to FDA	Decision to delay the submission of pregabilin until completion of our BID program for
03-Oct-00	53,763	199	Submission to FDA	Protocol amendments to include either new co-principals, change of address, and/or eith-inneelinative for makenel 1000 015 100 015
20-Oct-00	53,763	500	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-060, -132, -173, -174, and -183
25-Oct-00	53,763	201	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-132, -173, and -
30-Oct-00	53,763	202	Submission to FDA	Protocol amendments to include either new study centers for protocols 1008-132, - 160, -173, and -174
07-Nov-00	53,763	203	Submission to FDA	Protocol amendment submitted for protocol 1008-160
10-Nov-00	53,763	204	Submission to FDA	Provided protocol to FDA due to missing pages from earlier submission
10-Nov-00	53,763	205	Submission to FDA	7 research reports submitted
13-Nov-00	53,763	506	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-060, -132, -173,
				-1/4, and -183

53,763 207 Submission to FDA 53,763 208 Submission to FDA 53,763 209 Submission to FDA 53,763 210 Submission to FDA 53,763 211 Submission to FDA 53,763 212 Submission to FDA 53,763 214 Submission to FDA 53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 215 Submission to FDA 53,763 215 Submission to FDA 53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 221 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< th=""><th>Date</th><th>IND/NDA No. Serial No.</th><th>Serial No.</th><th>Activity</th><th>Submission Details</th></t<>	Date	IND/NDA No. Serial No.	Serial No.	Activity	Submission Details
53,763 208 Submission to FDA 53,763 209 Submission to FDA 53,763 210 Submission to FDA 53,763 211 Submission to FDA 53,763 212 Submission to FDA 53,763 213 Submission to FDA 53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>20-Nov-00</td><td>53,763</td><td>207</td><td>Submission to FDA</td><td>Protocol amendments to include new study centers for protocols 1008-132, -160, -173, and -174</td></t<>	20-Nov-00	53,763	207	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-132, -160, -173, and -174
53,763 209 Submission to FDA 63,763 210 Submission to FDA 53,763 211 Submission to FDA 53,763 213 Submission to FDA 53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 222 Submission to FDA 53,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>29-Nov-00</td><td>53,763</td><td>208</td><td>Submission to FDA</td><td>Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-031, -132, -134, -160, -173, and -174</td></t<>	29-Nov-00	53,763	208	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-031, -132, -134, -160, -173, and -174
53,763 210 Submission to FDA 53,763 211 Submission to FDA 53,763 212 Submission to FDA 53,763 213 Submission to FDA 53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 222 Submission to FDA 53,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>01-Dec-00</td><td>53,763</td><td>209</td><td>Submission to FDA</td><td>Protocol amendments to include new study centers for protocols 1008-132, -160, -173, and -174</td></t<>	01-Dec-00	53,763	209	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-132, -160, -173, and -174
53,763 211 Submission to FDA 53,763 212 Submission to FDA 53,763 214 Submission to FDA 53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 221 Submission to FDA 53,763 221 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>07-Dec-00</td><td>53,763</td><td>210</td><td>Submission to FDA</td><td>Protocol amendments to include either new study centers, change of address, and/or change of principal investigator for protocols 1008-033, -105, -132, and -134</td></t<>	07-Dec-00	53,763	210	Submission to FDA	Protocol amendments to include either new study centers, change of address, and/or change of principal investigator for protocols 1008-033, -105, -132, and -134
63,763 212 Submission to FDA 63,763 213 Submission to FDA 53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 217 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 224 Submission to FDA 53,763 224 Submission to FDA 53,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>15-Dec-00</td><td>53,763</td><td>211</td><td>Submission to FDA</td><td>Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-015, -033, -060, -132, -160, -174, and -183</td></t<>	15-Dec-00	53,763	211	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-015, -033, -060, -132, -160, -174, and -183
63,763 214 Submission to FDA 63,763 214 Submission to FDA 63,763 215 Submission to FDA 63,763 216 Submission to FDA 63,763 217 Submission to FDA 63,763 217 Submission to FDA 63,763 219 Submission to FDA 63,763 220 Submission to FDA 63,763 221 Submission to FDA 63,763 222 Submission to FDA 63,763 223 Submission to FDA 63,763 226 Submission to FDA 63,763 226 <t< td=""><td>21-Dec-00</td><td>53,763</td><td>212</td><td>Submission to FDA</td><td>Initial Medwatch safety report for protocol 1008-060</td></t<>	21-Dec-00	53,763	212	Submission to FDA	Initial Medwatch safety report for protocol 1008-060
53,763 214 Submission to FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 216 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 224 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>28-Dec-00</td><td>53,763</td><td>213</td><td>Submission to FDA</td><td>Updated Investigator's Brochure</td></t<>	28-Dec-00	53,763	213	Submission to FDA	Updated Investigator's Brochure
53,763 215 Lulter from FDA 53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 226 Submission to FDA 53,763 228	28-Dec-00	53,763	214	Submission to FDA	Initial Medwatch safety report for protocol 1008-074
53,763 215 Submission to FDA 53,763 216 Submission to FDA 53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 224 Submission to FDA 53,763 224 Submission to FDA 53,763 226 Submission to FDA 53,763 226 <t< td=""><td>29-Dec-00</td><td>53,763</td><td></td><td>Letter from FDA</td><td>Minutes of the Executive Carcinogenicity Committee meeting on 12Dec2000</td></t<>	29-Dec-00	53,763		Letter from FDA	Minutes of the Executive Carcinogenicity Committee meeting on 12Dec2000
53,763 216 Submission to FDA 53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 224 Submission to FDA 53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 228 Submission to FDA 53,763 228 <t< td=""><td>04-Jan-01</td><td>53,763</td><td>215</td><td>Submission to FDA</td><td>Protocol amendments to include new study centers for protocols 1008-060, -132, -160, -173, -174, and -183</td></t<>	04-Jan-01	53,763	215	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-060, -132, -160, -173, -174, and -183
53,763 217 Submission to FDA 53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA	05-Jan-01	53,763	216	Submission to FDA	7 research reports submitted
53,763 218 Submission to FDA 53,763 219 Submission to FDA 53,763 221 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 222 Submission to FDA 53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 228 Submission to FDA	09-Jan-01	53,763	217	Submission to FDA	Updated Investigator's Brochure
53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 224 Submission to FDA 53,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 227 Submission to FDA 53,763 227 Submission to FDA 53,763 228 Submission to FDA 53,763 228 Submission to FDA 53,763 228 Submission to FDA	16-Jan-01	53,763	218	Submission to FDA	Protocol amendments to include either new study centers, new principal investogator,
53,763 219 Submission to FDA 53,763 220 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 224 Submission to FDA 53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 228 Submission to FDA					and/or sub-investigators for protocols 1008-015, -033, -105, -132, -134, -160, -173, and -174
53,763 220 Submission to FDA 53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 224 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 227 Submission to FDA 53,763 227 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA	18-Jan-01	53,763	219	Submission to FDA	Information regarding the 2-year carcinogenicity studies of pregabalin in rats and mice,
53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 226 Submission to FDA 53,763 228 Submi	10- lan-01	53 763	066	Submission to EDA	and to provide an assessment of the carcinogenic potential of pregabalin
53,763 221 Submission to FDA 53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 228 Submi	0.180	20,50	250	AUT O HOISSING	Ameridment to allow edition and rationale for Physician Withdrawal Checklist and Creatinine Clearance Exclusion criteria
53,763 222 Submission to FDA 53,763 223 Submission to FDA 53,763 224 Submission to FDA 53,763 226 Submission to FDA 53,763 226 Submission to FDA 53,763 228 Submi	19-Jan-01	53,763	221	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-072, -160, -173, -174, and -183
53,763 223 Submission to FDA 25,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 225 Submission to FDA 53,763 227 Submission to FDA 53,763 226 Submi	22-Jan-01	53,763	222	Submission to FDA	Meeting minutes from 17Jan2001 regarding protocols 1008-060, -132, and -173
53,763 224 Submission to FDA 53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 228 Submi	24-Jan-01	53,763	223	Submission to FDA	Protocol amendments to include new study centers for protocols 1008-173 and -183
53,763 225 Submission to FDA 53,763 226 Submission to FDA 53,763 228 Submission to FDA 53,763 228 Submission to FDA	25-Jan-01	53,763	224	Submission to FDA	Amendment to correct a typographical error in previous submission
53,763 226 Submission to FDA 53,763 227 Submission to FDA 53,763 228 Submission to FDA	25-Jan-01	53,763	225	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-033
53,763 227 Submission to FDA 53,763 228 Submission to FDA	29-Jan-01	53,763	526	Submission to FDA	Expert opinions regarding the carcinogenic potential of pregabalin based upon all available data and providing an overview of regulatory status outside the United States.
53.763 228 Submission to FDA	06-Feb-01	53,763	227	Submission to FDA	3 research reports submitted
	07-Feb-01	53,763	228	Submission to FDA	Clinical proposal regarding FDA risk/henefit concerns

Date	IND/NDA No.	Serial No.	Activity	Submission Details
08-Feb-01	53,763	229	Submission to FDA	Response to request for additional references from 02Eeb2001 meeting
09-Feb-01	53,763	230	Submission to FDA	4 research reports submitted
14-Feb-01	53,763	231	Submission to FDA	5 research reports submitted
16-Feb-01	53,763	232	Submission to FDA	Correspondance informing FDA of our discontinuation of Pain and fibromylagia studies in the USA as part of the partial clinical hold imposed by FDA because none of the
100	-			patients in the study met the refractory requirements for continuance
27-Feb-01	53,763		Letter from FDA	Letter placing a partial hold on clinical studies until additional information is known
				regarding the tumongenic mechanism of hemangiosarcoma in mice, and the relevance
				of this finding to humans
28-Feb-01	53,763	233	Submission to FDA	3 research reports submitted
09-Mar-01	53,763	234	Submission to FDA	Annual report covering periods 09Nov1999 to 08Nov2000
09-Mar-01	53,763	235	Submission to FDA	3 research reports submitted
14-Mar-01	53,763	236	Submission to FDA	Updated Investigator's Brochure
22-Mar-01	53,763	237	Submission to FDA	Initial Medwatch safety report for protocol 1008-134
28-Mar-01	53,763	238	Submission to FDA	Protocol amendments to include new investigators for protocols 1008-014, -015, -031,
				032, and -033
28-Mar-01	53,763	239	Submission to FDA	Updated Investigator's Brochure
30-Mar-01	53,763	540	Submission to FDA	Meeting minutes from meetings on 26Jan2001, 29Jan2001, 02Feb2001, 08Feb2001,
				and 13Feb2001 regarding mouse carcinogenicity
UZ-Apr-01	53,763	241	Submission to FDA	Initial Medwatch safety report for protocol 1008-074
23-Apr-01	53,763	242	Submission to FDA	2 research reports submitted
27-Apr-01	53,763	243	Submission to FDA	8 research reports submitted
27-Apr-01	53,763	244	Submission to FDA	Protocol amendment to include new investigators for protocols 1008-014, -015, -033, -
01-May-01	53 763	245	Cubmiccion to EDA	104, -127, and -131
Og-May-01	53,763	240	Submission to FDA	5 research reports submitted
US-INIAY-U	33,783	740	Submission to FDA	Hequest for Agency review and agreement regarding open-label treatment in refractory neuropathic pain patients for protocol 1008-197
10-May-01	53,763	247	Submission to FDA	Protocol amendments to include new sub-investigators for protocols 1008-132, -160, -
18-May-01	53,763	248	Submission to FDA	Request for joint meeting with DAAODP and DACCADP to reconcile the apparent
30-May-01	53,763	249	Submission to FDA	Listing Medwatch safety report for protocol 1009 001
01~Jun-01	53,763	250	Submission to FDA	Letter to inform agency of company operation by procedures and procedures to updating the
07-Jun-01	53,763	251	Submission to FDA	Protocol amendments to include new sub-investigators for protocols 1008-060, -131, -
				132, -134, -160, -173, -174, and -183

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Submission Details	Request for a Type C meeting to discuss new data relevant to possible mechanisms of hemangiosarcoma development in mice, to outline experimental approaches planned to test mechanistic hyporheeses.	Initial Medwatch safety report for protocol 1008-074	Response to request for a type C meeting regarding mouse hemanglosarcoma	Protocol amendments to include change of site names and/or change of address for protocols 1008-015, 029, 030, 032, and -033	1 research report submitted	2 research reports submitted	Initial Medwatch safety report for protocol 1008-100	The ERS plan for the Chemistry, Manufacturing, and Controls section was not included in previous correspondence and is included with this submission	Protocol amendment to include new sub-investigators to protocols 1008-033, -132, and -173	Letter pertaining to revised ophthalmological analysis plan	Letter to inform FDA of IND ownership and appointment of Pfizer to act as an	Controlled Substance and abuse liability arrangel	Meeting minutes and slide presentating from Toxicology/FDA Scientific meeting of July 12, 2001	Update on the regulatory status of clinical trials for pregabalin around the world	Protocol amendments to include new sub-investigators for protocols 1008-033 and	Acceptance of Amendment submissions regarding electronic submission for the NDA	Additional relevant publication on VEGF induction of angiosarcoma from the American Journal of Pathology, Vol. 156, No. 4, April 2000	Protocol amendment to include new sub-investigators for protocol 1008-173	Deferral and partial waiver request for collection of pediatric data	Follow-up Medwatch Safety report for protocol 1008-033	Minutes regarding teleconference meeting with the DACCADP and DNDP on 19Octon	1 research report submitted	New Protocol and study site centers for protocol 1008-197	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-160 - 174 - 183 and -197	Protocol amendments to include either new study centers and/or sub-investigators for
Activity	Submission to FDA	Submission to FDA	Letter from FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Letter from FDA	Submission to FDA	letter from FDA	Submission to FDA	Submission to FDA	Submission to FDA	Letter from FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA
Serial No.	252	253		254	255	256	257	528	259		260		261	262	263		264	265	566	267	268	569	270	27.1	272
IND/NDA No. Serial No.	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53.763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763	53,763
Date	14-Jun-01	26-Jun-01	27-Jun-01	02~Jul-01	10-Jul-01	11-Jul-01	19-Jul-01	31-Jul-01	06-Aug-01	06-Aug-01	13-Aug-01	17-Aug-01	23-Aug-01	06-Sep-01	07-Sep-01	12-Sep-01	19-Sep-01	19-Sep-01	19-Oct-01	25-Oct-01	01-Nov-01	09-Nov-01	16-Nov-01	18-Dec-01	07-Jan-02

Date	IND/NDA No. Serial No.	Serial No.	Activity	Submission Details
18-Jan-02	53,763	273	Submission to FDA	Protocol amendment to include a new study center for protocol 1008-197
29-Jan-02	53,763	274	Submission to FDA	Protocol amendments to include either new investigators and/or sub-investigators for protocols 1008-033, -131, -134, and -197
13-Feb-02	53,763	275	Submission to FDA	Protocol amendment to include new investigator for protocol 1008-197
22-Feb-02	53,763	276	Submission to FDA	Initial Medwatch safety report for protocol 1008-040
04-Mar-02	53,763	27.7	Submission to FDA	Protocol amendment to include new investigators for protocol 1008-197
08-Mar-02	53,763	278	Submission to FDA	Annual report covering periods 09Nov2000 to 08Nov2001
27-Mar-02	53,763	279	Submission to FDA	Initial Medwatch safety report for protocol 1008-149
01-Apr-02	53,763	280	Submission to FDA	Protocol amendments to include either new investigators and/or sub-investigators for
01-Apr-02	53,763	281	Submission to FDA	3 research reports submitted
09-Apr-02	53,763	282	Submission to FDA	2 research reports submitted
29-Apr-02	53,763	283	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-149
02-May-02	53,763	284	Submission to FDA	Protocol amendments to include new sub-investigators for protocols 1008-030, -033, -
03-May-02	53,763	285	Submission to FDA	14 research reports submitted
06-May-02	53,763	586	Submission to FDA	Initial Medwatch safety report for protocol 1008-196
15-May-02	53,763	287	Submission to FDA	1 research report submitted
5-May-02	53,763	288	Submission to FDA	21 research reports submitted
15-May-02	53,763	289	Submission to FDA	Request for a pre-NDA meeting with the Division to reach consensus on the data for
				an NDA
20-May-02	53,763	230	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-196
21-May-02	53,763	291	Submission to FDA	19 research reports submitted
29-May-02	53,763	292	Submission to FDA	Initial Medwatch safety report for protocol 1008-155
03-Jun-02	53,763	293	Submission to FDA	3 research reports submitted
03-Jun-02	53,763	594	Submission to FDA	Information regarding reports of anaphylaxis or symptoms that might be anaphylaxis in our pregabalin database as requested per FDA
03-Jun-02	53,763	292	Submission to FDA	Protocol amendments to include either new principal investigators and/or sub-
12-Jun-02	53 763	296	Submission to EDA	Berneet for a pre-NDA meeting including objectives and -197
18-Jun-02	53,763		Letter from FDA	Type B Meeting Bounes for one-NDA Meeting with EDA
18-Jun-02	53,763	297	Submission to FDA	Initial Medwatch report for protocol 1008-035
10-Jul-02	53,763	298	Submission to FDA	Follow-up Medwatch Safety report for protocol 1008-155
22-Jul-02	53,763	533	Submission to FDA	Protocol amendment to include new sub-investigators for protocol 1008-105
02-Aug-02	53,763	300	Submission to FDA	Pfizer notification to FDA regarding the transfer of the sponsor obligations and activities for studies 1008-014, -015, -027, -029, -030, -031, -032, -033, -104, -105, -
				127, -131, -132, -134, -160, -173, -174, and -183
02-Aug-02	53,763	301	Submission to FDA	Protocol amendment to include new sub-investigator to protocol 1008-197

08-Aug-02 16-Aug-02 30-Aug-02 06-Sep-02 13-Sep-02 20-Sep-02	53,763 53,763 53,763	305	Submission to FDA	
16-Aug-02 30-Aug-02 06-Sep-02 13-Sep-02 20-Sep-02	53,763	2		Proposal Trade Name Lyrica for pregabalin
30-Aug-02 06-Sep-02 06-Sep-02 13-Sep-02 20-Sep-02	53,763	38	Submission to FDA	NDA Table of Contents
06-Sep-02 06-Sep-02 13-Sep-02 20-Sep-02	53 763	304	Submission to FDA	Protocol amendments to include either new principal, co-investigator, and/or sub- investigators for protocols 1008-131, -134, and -174
06-Sep-02 13-Sep-02 20-Sep-02	20,'50	305	Submission to FDA	1 research report submitted
13-Sep-02 20-Sep-02	53,763	306	Submission to FDA	Protocol amendment to include new sub-investigators for protocol 1008-197
20-Sep-02	53,763	307	Submission to FDA	1 research report submitted
	53,763	308	Submission to FDA	Protocol amendment to include either new sub-investigators, principal: investigators, and/or change of address for protocols 1008-033, -104, -132, -134, -173, and -197
23-Sep-02	53,763	309	Submission to FDA	Initial Medwatch safety report for protocol 1008-155
30-Sep-02	53,763		Letter from FDA	Reference to FDA amendments dated 12June2002 regarding a preNDA meeting backage including questions reparding onthitalmologic safety assessment data
30-Sep-02	53,763	310	Submission to FDA	Pregabalin Pfizer Pre-NDA Meeting Minutes from 17July2002 FDA Meeting
02-Oct-02	53,763	311	Submission to FDA	Initial Medwatch safety report for protocol 1008-155
04-Oct-02	53,763	312	Submission to FDA	Protocol amendments for protocols 1008-014, -029, -030, -031, -032, -033, -105, -127, -137, and -197
11-Oct-02	53,763	313	Submission to FDA	12 research reports submitted
07-Nov-02	53,763	314	Submission to FDA	Updated Investigator's Brochure
15-Nov-02	53,763	315	Submission to FDA	Protocol amendment to change co-principal investigator for protocol 1008-134
18-Nov-02	53,763	316	Submission to FDA	Initial Medwatch report for protocol 1008-012
19-Nov-02	53,763	317	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for
OC Mon OO	20.700	3		protocols 1008-014, -029, -030, -131, and -132
20-40NI-C2	59/56	818	Submission to FDA	Hesponse to FDA Inquiry (17Sept2002) that Pfizer provide a list of ongoing and planned mechanistic studies of Pregabalin related to the finding of hemanglosarcomas in the finding of hemanglosarcomas
26-Nov-02	53,763	319	Submission to FDA	Initial Medwatch safety report for protocol 1008-125
	53,763	320	Submission to FDA	Medwatch safety report for protocol 1008-012
18-Dec-02	53,763	321	Submission to FDA	Protocol amendments to include either new study centers and/or sub-investigators for protocols 1008-015, -033, -105, and -174
17-Jan-03	53,763	322	Submission to FDA	Initial Medwatch safety report for protocol 1008-196
28-Jan-03	53,763	323	Submission to FDA	Protocol amendments to include either new study centers, change of address, facilities, principal investigator, and/or sub-investigators for protocols 1008-033, -105,
31-Jan-03	53.763	324	Submission to FDA	and -134
31-Jan-03	53,763	325	Submission to FDA	Results of the CD-1 Mouse Carcinogen admission of 14 research
07-Feb-03	53,763	326	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-198

Date	IND/NDA No.	Serial No.	Activity	Submission Details
21-Feb-03	53,763	327	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-155
21-Feb-03	53,763	328	Submission to FDA	Protocol amendments to include either new study centers, prinicpal Investigators, labs, and/or sub-investigators for protocols 1008-015, -031, -032, -033, -132, -160, and -197
25-Feb-03	53,763	329	Submission to FDA	Initial Medwatch safety report for protocol 1008-198
27-Feb-03	53,763	330	Submission to FDA	Annual Report covering the period 11/09/2001 to 10/12/2002
10-Mar-03	53,763	331	Submission to FDA	2 research reports submitted
13-Mar-03	53,763	332	Submission to FDA	Protocol amendments to include either new study centers, IRB address, and/or sub-
19-Mar-03	53.763	333	Submission to FDA	Request for a CAC Meeting
15-Apr-03	53,763	334	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-134
18-Apr-03	53,763	335	Submission to FDA	Request for a Type A 'critical path' meeting to discuss plans regarding submission of the NDA
28-Apr-03	53,763	336	Submission to FDA	Follow-up Medwatch safety rport for protocol 1008-198
02-May-03	53,763	337	Submission to FDA	Follow-up Medwatch safety rport for protocol 1008-198
13-May-03	53,763	338	Submission to FDA	Protocol amendments to include either new study centers, change of address and/or sub-investigators for protocol 1008-197
20-May-03	53,763		Letter from FDA	FDA acknowledgment of our request for a Type A meeting to discuss clinical plans for the NDA. Meeting accepted
22-May-03	53,763	339	Submission to FDA	Final questions and attendee list for Type A meeting scheduled 26June2003
10-Jun-03	53,763	340	Submission to FDA	Protocol amendment to include sub-investigator for protocol 1008-060
23-Jun-03	53,763	341	Submission to FDA	Response to the FDA inquiry for Information in reference to the Type A Meeting
of tin 03	69 769	040	Cubminging to FDA	Isanbar 17 17 17 17 17 17 17 17 17 17 17 17 17
17-Jul-03	53.763	343	Submission to FDA	Proposed Prograpality NDA Strategy for 2003
23-Jul-03	53,763		Letter from FDA	FDA Meeting Minutes from 26 lune2003 meeting
13-Aug-03	53,763	344	Submission to FDA	New Protocol A0081035 and Phase 4 Post-Approval Commitment
14-Aug-03	53,763	345	Submission to FDA	Letter to inform agency regarding regulatory status of clinical trials for pregabalin in France
21-Aug-03	53,763	346	Submission to FDA	Study reports regarding mouse hemangiosarcoma submitted to DACCADP and DNDP per 11 Aug 2003 teleconference. First of three consecutive submissions
22-Aug-03	53,763	347	Submission to FDA	Study reports regarding mouse hemangiosarcoma submitted to DACCADP and DNDP per 11 Aug 003 teleconference. Second of three consecutive submissions
25-Aug-03	53,763	348	Submission to FDA	Study reports regarding mouse hemangiosarcoma submitted to DACCADP and DNDP per 11Aug2003 teleconference. Third of three consecutive submissions
26-Aug-03	53,763	349	Submission to FDA	Request that the Lyrica name be submitted for review by DMETS in advance of our 300c;2003 NDA Submission
29-Aug-03	53,763	350	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-125

Date	IND/NDA No.	Ser	Activity	Submission Details
16-Sep-03	53,763	351	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-065
22-Sep-03	53,763	352	Submission to FDA	Commitment to conduct pediatric studies and plans to address pediatrics in the NDA
23-Sep-03	53,763	353	Submission to FDA	Protocol revisions regarding study centers for protocol 1008-197
03-Oct-03	53,763	354	Submission to FDA	Pfizer commitment to submit the following study reports: 740-03614,745-03407, 745- 03659,745-0740,745-05872,745-0358,745-03057,745-03771,745- 03828,745-03832,745-03834, 745-03835,745-03858,745-03858
28-Oct-03	53,763	355	Submission to FDA	Protocol revisions for protocol 1008-197
29-Oct-03	53,763	326	Submission to FDA	Follow-up Medwatch safety report for protocol 1008-202
30-Oct-03	21-446		Submission to FDA	Original NDA Application
07-Nov-03	21-446		Submission to FDA	Ophthalmic visual field images to update the NDA database
20-Nov-03	21-446		Submission to FDA	Ophthalmic visual field images to update the NDA database
25-Nov-03	21-446		Letter from FDA	This application has been administratively split by the Agency according to indication. Two applications have been submitted to HFD-170
05-Dec-03	53,763	357	Submission to FDA	Regarding the interactions between Pfizer and AFSSAPS specific to conducting
				clinical studies in France, enclosed are the two submissions sent to the French Agency in response to their aniestions
09-Dec-03	21-446		Submission to FDA	Response to FDA inquiry (01Dec2003) for additional pivotal study data
10-Dec-03	21-446		Submission to FDA	Response to FDA inquiry (08Dec2003), providing Carcinogenicity Section 4.2.3.4 of Module 4 (Volumes M4 I5 Vol. 25 - M1 I5 Vol. 65)
23-Dec-03	21-446		Submission to FDA	Response to FDA inquiry (18Dec2003), providing specific GAD and Epilepsy study
30-Dec-03	53,763	358	Submission to FDA	Initial Medwatch safety report for protocol 1008-165
08-Jan-04	21-446		Submission to FDA	Response to FDA inquiry, providing a revised diardiar dataset and a separate dataset with specified nation information
09-Jan-04	21-446		Letter from FDA	We have completed our filing review and have determined that your application is sufficiently complete to permit a substantive review
12-Jan-04	21-446		Submission to FDA	Response to FDA inquiry, providing additional SAS Codes, submission of a population PK report, and additional files in the PDPPK folder
6-Jan-04	21-446		Submission to FDA	Response to FDA inquiry (09Jan2004) providing replacement file sp1994.pdf to the EDR
23-Jan-04	53,763	329	Submission to FDA	Protocol amendment for protocol 1008-197
30-Jan-04	21-446		Submission to FDA	Response to FDA inquiry (07, 09, 23, 22Jan2004) for previously dated requests
05-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (21, 28, 29Jan2004) for previously dated requests
06-Feb-04	21-446		Submission to FDA	DSI Response for FDA inquiry (21, 28, 29Jan2004) for Information
12-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (03Feb2004) of Information from the Biopharmaceutics
				Reviewer

Date	IND/NDA No. Serial No.	Serial No.	Activity	Submicelon Datelle
13-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (21,Jan2004), resultabilisation of time exposure tables
16-Feb-04	21-446		Submission to FDA	Response to FDA Inquiry (09Jan2004) regarding the Day 74 Letter
17-Feb-04	21-446		Submission to FDA	Response to CMC Reviewer (11 Feb2004) Information
20-Feb-04	21-446		Submission to FDA	Response to Medical Officers (17Feb204) in the Division of DACCADP
20-Feb-04	53,763	360	Submission to FDA	Follow-up IND Safety Report for protocol 1008-165
23-Feb-04	21-446		Submission to FDA	4 Month Safety Update
25-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (21Jan2004), resubmitting electronic files to Clinical PharmacolovyBiopharmaceutics
25-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (28Jan2004), provided electronic files to the FDA Safety
25-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (29Jan2004), resubmitting electronic files to Clinical Pharmacolocy/Biopharmacentirs
25-Feb-04	53,763	361	Submission to FDA	Annual Report for periods covering 13 October 2002 through 12 October 2003
26-Feb-04	21-446		Submission to FDA	Response to FDA inquiry (17Feb2004) for information from the Medical Officers in DACCADP
27-Feb-04	21-446		Submission to FDA	Resubmission of Electronic Files: Response to FDA inquiry (17Feb2004) of Information for the Day 74 Letter
03-Mar-04	21-446		Submission to FDA	Response to FDA inquiry (27Feb2004) for Information from the Biopharmaceutics Reviewer
05-Mar-04	53,763	362	Submission to FDA	Pfizer has addressed the partial clinical hold issues identified in the Agency's partial clinical hold letter dated 27Feb2001
17-Mar-04	21-446		Submission to FDA	Revised Label with 4-Month Safety Data
19-Mar-04	21-446		Submission to FDA	Response to FDA inquiry (04March2004) for Information from the DNDP Safety Group
19-Mar-04	21-446		Submission to FDA	Response to the CSS FDA inquiry (04March2004) from the DACCADP
31-Mar-04	21-446		Submission to FDA	Response to FDA Inquiry (16March2004) for Information from the DNDP Safety Group
31-Mar-04	21-446		Letter from FDA	We have received the following comments from the Controlled Substance Staff (CSS, HFD-009) in resonans to our consult requirest
06-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (24March2004) for Information from the DACCADP Medical Officer
07-Apr-04	53,763		Letter from FDA	We refer to your amendment dated 05 March 2004 (SN-362) citing reasons for placing your IND on partial clinical hold. PD concluded that studies in the neuropathic patient may be resmanded.
08-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (01April2004) for Information from the DACCADP Medical Officer
09-Apr-04	21-446		Submission to FDA	Meeting Request for 13 April 2004 Meeting with the DACCADP and the CSS

Pregabalin IND 53,763 and NDA 21-446 for Analgesia, July 1997 - December 2004

Date	IND/NDA No. Serial No.	Serial No.	Activity	Submission Details
12-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (24March2004) for Information from the DNDP Safety Group
16-Apr-04	21-446		Letter from FDA	On 08April2004, receipt of 06April2004 major amendment to NDA, extension of user
19-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (07Appli2004) for Information from the Safety Teams in the DAPCADP and the DNDP
20-Apr-04	21-446		Submission to FDA	Response to the Chemistry Reviewer FDA Inquity (03April2004) for information for the empty capsule shells of each precabalin strength
21-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (13April2004) for Information from the Chemistry Reviewer
22-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (14April2004) for Information from the Chemistry Reviewer
28-Apr-04	21-446		Submission to FDA	Response to FDA inquiry (20April2004) for information from the Division's Safety Group
03-May-04	21-446		Submission to FDA	Meeting Request with the Agency Specific to the Visual Data in the Pregabalin Development Program
04-May-04	21-446		Submission to FDA	Response to FDA Inquiry (22April2004) for information from the Division's Pharmacolooy/Toxicoloov Group
05-May-04	53,763	363	Submission to FDA	Updated Investigator's Brochure
10-May-04	21-446		Letter from FDA	Rejection of a Type A meeting request, deemed unnecessary
14-May-04	21-446		Submission to FDA	Response to CMC following 23April2004 teleconference
14-May-04	53,763	364	Submission to FDA	Protocol amendment for protocol 1008-197
17-May-04	21-446		Letter from FDA	Meeting Minutes (13April2004) regarding preliminary assessment by the Controlled Substance Staff and product scheduling
17-May-04	21-446		Submission to FDA	Response to FDA inquiry (12May2004) for information from the Division's Safety
18-May-04	21-446		Submission to FDA	Response to FDA inquiry (05, 10May2004) for chemistry information from the Field Investigator
19-May-04	21-446		Submission to FDA	Follow-up Response to FDA inquiry (04March2004) for information from the DNDP Safety Gruin
20-May-04	21-446		Submission to FDA	Response to FDA inquiry (06May2004) for toxicology information
25-May-04	21-446		Submission to FDA	Response to FDA inquiry (13, 14May2004) for information from the CMC Reviewer
26-May-04	21-446		Submission to FDA	Response to FDA inquiry (10May2004) for information from the Statistical Reviewer
27-May-04	21-446		Submission to FDA	Response to FDA inquiry (13April 2004) Regarding Visual Fields
02-Jun-04	21-446		Submission to FDA	Follow-up to 13 April 2004 Discussion
03-Jun-04	21-446		Submission to FDA	Follow-up to 26 April 2004 Discussion

Date	IND/NDA No.	Serial No.	Activity	Strhmiogica Dobile
04-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (07May2004) for information from the Division's Safety
07-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (10May2004) for information from the Statistical Reviewer
09-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (18May2004) for information from the Division's Safety Group
11-Jun-04	53,763	365	Submission to FDA	New study protocols A0081036 and A0081060
14-Jun-04	21-446		Submission to FDA	Proposed Changes to the 07June2004 FDA Proposed Package Insert from the DACCADP
18-Jun-04	21-446		Submission to FDA	Response to FDA inquiry following the 16 lune2004 teleconference
21-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (14June2004) for information from the Clinical Pharmacologist reparting Study 1008-196
22-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (15June2004) for Information from the Division's Safety
24-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (16June2004) for Information from the Safety Group Division
25-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (17June2004) for Information from the Division's Clinical Group
28-Jun-04	21-446		Submission to FDA	Response to FDA inquiry (23June2004) for Information from the Division's CMC Group
29-Jun-04	21-446		Submission to FDA	NDA Transfer Notification (Pfizer Inc. to CP Pharmaceuticals International)
01-Jul-04	21-446		Submission to FDA	Proposed Labeling for Dicussion at the 30June2004 teleconference
02-Jul-04	21-446		Submission to FDA	Response to FDA inquiry following the 30June2004 teleconference
06-Jul-04	21-446		Submission to FDA	Response to FDA inquiry (23June2004) for Information from the Division's Safety Group
07-Jul-04	21-446		Submission to FDA	Response to FDA inquiry (24June2004) for Information from the Division's Safety Group
09-Jul-04	21-446		Submission to FDA	Revised carton and container labeling
13-Jul-04	21-446		Submission to FDA	CPPI NDA Transfer Notification Letter and Right of IND Reference Statements
15-Jul-04	21-446		Submission to FDA	Response to FDA inquiry (11May2004) for Information from the Division's Safety Group
16-Jul-04	21-446		Submission to FDA	Formal Dispute Resolution Request - Abuse Liability Assessment of Pregabalin by the Controlled Substance Staff
20-Jul-04	21-446		Submission to FDA	Response to FDA inquiry (14July2004) for information from DACCADP
22-Jul-04	21-446		Submission to FDA	Response to FDA inquiry (08 and 09July2004) for information from DACCADP
23-Jul-04	21-446		Letter from FDA	FDA acknowledges receipt on 16 July 2004 of our request for formal dispute resolution
26-Jul-04	21-446		Submission to FDA	Response to EDA inquiry, (20 hit/2004) for information for the

	CADP	n is approved,	CCADP	ndment and		CADP	dical reviewer	unction		sion's Safety		resolution	ation and	hthalmology		ent to File an	ent to File an	-	, Intent to File	(d	/ investigators	4			_			QN
Submission Details	Response to FDA inquiry (08July2004) for Information from DACCADP	We have completed our review of this application, before this application is approved, however, you must submit draft labeling revision as follows:	Response to FDA inquiry (27July2004) for Information from the DACCADP	Response to 29 July 2004 Appprovable Letter - Intent to File an Amendment and	Meeting Request	Response to FDA inquiry (14July2004) for information from DACCADP	Response to FDA inquiry (04, 13August2004) for information from a medical reviewer	Briefing Package for 18 August 2004 meeting regarding visual function	Proposed Labeling	Response to FDA inquiry (09Augus/2004) for information from the Division's Safety Group	Final Safety Update Plan	Meeting minutes regarding request (04Aug2004) for formal dispute resolution	Response to FDA inquiry (08June2004 and 25May2004) for information and amendment clarification	Type B official Meeting Minutes from 18Apr2004 meeting regarding ophthalmology	New Protocol A0081004	Response to 31Aug2004 Approvable Letter for NDA 21-723) (NeP), Intent to File an Amendment	Response to 31Aug2004 Approvable Letter for NDA 21-724 (AOE), Intent to File an	Initial safaty ranget (spontaneous consumer ranget)	Response to 31Aug2004 Non-Approvable Letter on NDA 21-725 (GAD), Intent to File an Amendment	Request for End of Review Conference on NDA 21-723 (NeP)	Revised FDA 1572 Forms for protocols 1008-197 - 0139, 0152 and new investigators for protocols A008103619 and A0081060	New informed consent form submitted for protocol A0081004	New protocol A0081004 submitted	Amendment for protocol A0081004 submitted	DOWN TO TOO TOO TO THE TOWN TOWN TO THE TO	Response to key issues from 010ct2004 meeting	Response to key issues from 010cc2004 meeting NDA Resubmission and Final Safety Update	Response to key issues from 010c/2004 meeting NDA Resubmission and Final Safety Update General Correspondence regarding the approval of investigator IND
Activity	Submission to FDA	Letter from FDA	Submission to FDA	Submission to FDA		Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Letter from FDA	Submission to FDA	Letter from FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA	Submission to FDA		Submission to FDA	Submission to FDA Submission to FDA	Submission to FDA Submission to FDA Submission to FDA
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Date	27-Jul-04	29-Jul-04	03-Aug-04	05-Aug-04		12-Aug-04	18-Aug-04	19-Aug-04	20-Aug-04	23-Aug-04	24-Aug-04	24-Aug-04	25-Aug-04	31-Aug-04	31-Aug-04	03-Sep-04	07-Sep-04	07-Sep-04	08-Sep-04	13-Sep-04	15-Sep-04	13-Oct-04	13-Oct-04	13-Oct-04		26-Oct-04	26-Oct-04 01-Nov-04	26-Oct-04 01-Nov-04 02-Nov-04

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	IND/NDA No. Serial No.	Serial No.	Activity	Submission Details
16-Nov-04	21-446		Letter from FDA	All applications for new active ingredients, dose forms, indications, routes of
				administration and new dosing regimens are required to contain an assessment of the
				safety and effectiveness of the product in pediatric patients
18-Nov-04	53,763	374	Submission to FDA	Protocol amendment to include new study centers for protocol A0081004
24-Nov-04	53,763	375	Submission to FDA	Protocol amendment to include new study centers and Form 1572 revisions for
				protocols A0081036 and A0081060
7-Dec-04	53,763	376	Submission to FDA	Initial spontaneous, health care professionals safety report
14-Dec-04	53,763	377	Submission to FDA	Submission to FDA Protocol amendment to include new study centers for protocols A0081004, A0081036,
	-			and A0081060
22-Dec-04	53,763	378	Submission to FDA	New protocol A0081007 submitted
30-Dec-04	21-446		Submission to FDA	This letter seeks to formalize the previous communications, supply FDA with
	- 1			requested material and provide the Agency with an update of our position regarding
				the abuse potential for pregabalin
30-Dec-04	21-446		Submission to FDA	Submission to FDA This letter seeks to formalize previous communications and to supply the Division with
				Lyrica package insert and patient package insert
30-Dec-04	21-446		Letter from FDA	We have completed review of this application, as amended, and it is approved,
				effective on the date of this letter, for use as recommended in the agreed-upon
				labeling text

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